CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, May 9, 1907.

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CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
May				
*15	Drainage tunnel	Cripple Creek, Colo.	S.	4-25
*2	Crematory	Salt Lake City, Utah	S. & B. S.	4-25
*6	Sewer	Binghamton, N. Y.	P., S. & B. S.	4-18
*15	Bridge work	Washington, D. C.	S. & B. S.	4-11
*13	Reservoir	Waterville, N. Y.	S. & B. S.	4-18
*15	Sewers	Baltimore, Md.	P., S. & B. S.	5- 2
*15	Storm-water drains	Baltimore, Md.	P., S. & B. S.	5- 2
*18	Breakwater superstructure	Buffalo, N. Y.	S. & B. S.	4-25
*21	Ditches	Mitchell, Neb.	P., S. & B. S.	4- 4
*21	Riprap	New Haven, Conn.	S. & B. S.	4-25
21	Engineering supplies	Tompkinsville, N. Y.	S. & B. S.	5- 2
*22	Dredging	New London, Conn.	S. & B. S.	4-25
23	Pier, breakwater	Erie, Pa.	S. & B. S.	5- 2
25	Dredging	Boston, Mass.	S. & B. S.	5- 2
*27	Pier superstructure	Harbor Beach, Mich.	S. & B. S.	4-25
28	Sewers	St. Joseph, Mich.	S. & B. S.	5- 2
*28	Canal, etc.	Belle Fourche, S. Dak.	S. & B. S.	4-25
*31	Dredging	Tarrytown, N. Y.	S. & B. S.	5- 2
June				
1	Power plant apparatus	Portsmouth, N. H.	S.	5- 2
1	Motor generator sets	New York, N. Y.	S.	5- 2
1	Laundry	Portsmouth, N. H.	S.	5- 2
*1	Harbor excavation	Buffalo, N. Y.	S. & B. S.	5- 2
1	Dam	Portland, Ore.	S. & B. S.	4-25

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue
May 10.	Light plant	Battleford, Sask.	Apr.	25
May 13.	Electrical equipment	New York.	May	9
May 14.	Power house	Columbus, Ohio.	May	9
May 14.	Street lighting	Milton, Pa.	May	9
May 14.	Naphtha lights	Des Moines, Iowa.	May	2
May 16.	Restoring mains	Washington, D. C.	May	2
May 16.	Electrical equipment	New York.	May	9
May 20.	Electrical equipment	New York, N. Y.	May	9
May 20.	**Equipment**	**Los Angeles, Cal.**	**Mar.**	**28**
	Advertised, Eng. News, Mar. 28 to Apr. 18.			
May 21.	Electrical equipment	Chicago, Ill.	May	9
May 24.	Lighting fixtures	Washington, D. C.	May	9
May 29.	Gas franchise	Clifton Forge, Va.	May	9
May 29.	Electrical apparatus	Chicago, Ill.	May	2
June 1.	Motor generator sets	New York, N. Y.	May	2
June 1.	Power plant apparatus	Portsmouth, N. H.	May	2
June 1.	Electric fixtures	Fort Wood, N. Y.	Apr.	18
June 1.	Electric plant	Lawrence, Ind.	May	9
June 3.	Wiring, etc.,	Washington, D. C.	May	9
	Advertised, Eng. News, May 9 to 30.			
June 6.	Light plant	Dora, Ala.	May	9
June 12.	Light plant	Fort Wayne, Ind.	May	2

BRIDGES.

May 10.	Bridge, etc.,	Upper Sandusky, Ohio.	Apr.	25
May 10.	Bridge	Milwaukee, Wis.	Apr.	25
May 10.	Viaduct	Columbus, Ohio.	May	2
May 12.	Substructure, etc.,	Columbus, Ohio.	Apr.	25
May 13.	Culvert	Lorain, Ohio.	May	2
May 13.	Bridge approach	New York, N. Y.	May	2
May 13.	Bridge	Kansas City, Mo.	May	9
May 13.	Bridge	Akron, Ohio.	May	9
May 13.	Bridges	Youngstown, Ohio.	May	9
May 14.	Bridge	Ft. Worth, Tex.	May	9
May 15.	**Bridge work**	**Washington, D. C.**	**Apr.**	**11**
	Advertised, Eng. News, Apr. 11 to May 9.			
May 15.	Bridge and dam	Buckhorn, Ont.	May	2
May 18.	Bridge	Shelbyville, Ind	May	9
May 20.	Bridge	Purcell, Ind. T.	May	9
May 20.	Bridge	Emporia, Va.	May	2
May 22.	Bridge	Hanover, Ont.	May	9
May 25.	Bridge	Logan, Ohio.	May	9
May 27.	Arch, etc.,	Canandaigua, N. Y.	May	9
	Advertised, Eng. News, May 2-9.			
May 27.	Superstructures, etc.,	Chillicothe, Ohio.	May	2
June 4.	Bridge	Pensacola, Fla.	Apr.	18
	Advertised, Eng. News, Apr. 18.			
June 5.	Trestle, etc.,	Portland, Ore.	May	9
	Advertised, Eng. News, May 9-30.			
June 26.	Bridges, etc.,	Mitchell, Neb.	May	9
	Advertised, Eng. News, May 9-30.			

BUILDINGS.

May 9.	Building	Salem, Mass.	Apr.	25
May 10.	Buildings	Jacksonville, Fla.	Apr.	25
May 13.	Boiler plant	Philadelphia, Pa.	Apr.	25
May 13.	Fire engine house	New York, N. Y.	May	2
	Advertised, Eng. News, Apr. 25 and May 2.			
May 13.	Officers' quarters	Washington, D. C.	Apr.	18
	Advertised, Eng. News, Apr. 18 to May 9.			
May 14.	Post-office	Rockford, Ill.	Apr.	18
	Advertised, Eng. News, Apr. 18 and 25.			
May 15.	Schools	San Jose, Cal.	Apr.	18
May 15.	Storehouse, etc.,	Fort Screven, Ga.	Apr.	18
	Advertised, Eng. News, Apr. 18 to May 9.			
May 15.	School	Marysville, Mo.	Apr.	11
May 15.	Post-office	Denver, Colo.	Apr.	4
May 17.	Gymnasium	Whipple, Ariz.	Apr.	18
	Advertised, Eng. News, Apr. 18 to May 2.			
May 20.	Lamp shop	Tompkinsville, N. Y.	Apr.	18
	Advertised, Eng. News, Apr. 18 and 25.			
May 20.	Schools	New York, N. Y.	May	9
May 27.	Custom house	Washington, D. C.	May	2
May 28.	Post-office	New York, N. Y.	May	2
May 31.	Bakery machinery	Des Moines, Idaho.	May	9
June 1.	Heating	Ft. McPherson, Ga.	May	2
June 1.	Laundry	Portsmouth, N. H.	May	2
June 4.	State Capitol	Pierre, S. Dak.	Mar.	7
June 6.	Post office	Wichita, Kan.	May	9
	Advertised, Eng. News, May 9-16.			
June 13.	Post office	Meriden, Conn.	May	9
	Advertised, Eng. News, May 9 and 16.			
July 1.	Pulp plant	Niagara Falls, N. Y.	May	2

WATER SUPPLY AND IRRIGATION.

At once.	Boilers, etc.,	Bloomington, Ind.	May	9
May 10.	Water mains	Glenellyn, Ill.	May	9
May 10.	Water-works, etc.,	Battleford, Sask.	May	2
May 13.	**Reservoir**	**Waterville, N. Y.**	**Apr.**	**18**
	Advertised, Eng. News, Apr. 18 to May 9.			
May 13.	Pump	Amherstburg, Ont.	May	9
May 14.	Water-works and sewers	Regina, Sask.	May	9
May 15.	Pipe	Brandon, Man.	May	9
May 15.	**Ditch**	**Albany, Ill.**	**Mar.**	**28**
	Advertised, Eng. News, Mar. 28 to Apr. 18.			
May 16.	Cleaning strainers	Galveston, Tex.	Apr.	18
	Advertised, Eng. News, Apr. 18 and 25.			
May 16.	Water and gas mains	Washington, D. C.	May	2
May 17.	Ditch	Alexandria, Minn.	May	2
May 17.	Cast-iron pipe, etc.,	Brandon, Man.	Apr.	25
May 21.	Ditches	Mitchell, Neb.	Apr.	4
	Advertised, Eng. News, Apr. 4 to 25.			
May 22.	Reservoir, pipe, etc.,	Swanton, Vt.	May	9
	Advertised, Eng. News, May 9-16.			
May 27.	Buildings, wells, etc.,	Cincinnati, Ohio.	May	2
	Advertised, Engineering News, May 2 to 16.			
May 28.	Canal, etc.,	Belle Fourche, S. Dak.	Apr.	25
	Advertised, Eng. News, Apr. 25 to May 16.			
May 31.	Laying pipe	Cincinnati, Ohio.	May	9
June 3.	**Well, etc.,**	**Fort Bliss, Tex.**	**Mar.**	**21**
June 4.	Engine, Atlantic City, N. J.		May	9
	Advertised, Eng. News, May 9-16.			
June 5.	Dike, Crawford, Neb.		Mar.	21
	Advertised, Eng. News, Mar. 21 to Apr. 11			
June 5.	Filter plant	Burlington, N. J.	Apr.	25
	Advertised, Eng. News, Apr. 25 to May 30.			
June 19.	Water-works, etc.,	Romney, W. Va.	Apr.	25
July 1.	Dam	Portland, Ore.	Apr.	25

SEWERAGE.

May 9.	Sewers	Lamar, Colo.	Apr.	25
	Advertised, Eng. News, Apr. 25.			
May 10.	Sewers	Madison, Wis.	Apr.	25
May 11.	Sewer	Kent, Ohio.	May	2
	Advertised, Eng. News, May 2.			
May 13.	Sewer	Washington, D. C.	Apr.	18
	Advertised, Eng. News, Apr. 18 and 25.			
May 14.	Sewers	Scottdale, Pa.	May	2
	Advertised, Eng. News, May 2-9.			
May 15.	Sewers and water-works	Hartsville, S. C.	May	2
May 15.	Sewer pipe, bricks, etc.,	Washington, D. C.	May	2
May 15.	Sewers	Baltimore, Md.	May	2
	Advertised, Eng. News, May 2.			
May 15.	**Storm-water drains**	**Baltimore, Md.**	**Apr.**	**18**
	Advertised, Eng. News, Apr. 18.			
May 15.	Sewers	Elizabeth, N. J.	May	9
May 16.	Sewers	Edwardsville, Ill.	May	9
May 16.	Sewers	Waco, Tex.	Apr.	25
May 18.	Sewers	Des Moines, Iowa.	May	9
May 20.	Sewer, Hot Springs, Ark.		May	2
May 20.	Sewers	Barberton, Ohio.	May	2
	Advertised, Eng. News, May 2-9.			
May 21.	Sewers	Wells, Minn.	May	9
May 21.	Sewers	St. Louis, Mo.	May	9
May 28.	Sewers	St. Joseph, Mich.	May	2
May 29.	Sewers	Aberdeen, Wash.	May	9
May 30.	Sewers	Norfolk, Va.	May	2
	Advertised, Eng. News, May 2-23.			
June 1.	Sewer outlet	Ft. Monroe, Va.	May	2
	Advertised, Eng. News, May 2-23.			
June 3.	Sewers	Cape Girardeau, Mo.	May	9
June 3.	Sewers	Caney, Kan.	May	9
June 4.	Sewers	Fairbury, Neb.	May	9
June 4.	Sewer pipe	Alexandria, La.	May	2

STREETS AND ROADS.

May 9.	Macadam, etc.,	Towson, Md.	May	2
May 9.	Highway	Jefferson, Ohio	Apr.	25
May 9.	Roads	Winchester, Ind.	Apr.	25
May 10.	Grading, etc.,	Columbus, Ohio.	Apr.	25
May 10.	Improving pike	Cincinnati, Ohio.	Apr.	25
May 10.	Paving, etc.,	Louisville, Ky.	May	2
May 10.	Paving, etc.,	Mansfield, Ohio.	May	2
	Advertised, Eng. News, May 2.			
May 10.	Paving, etc.,	La Crosse, Wis.	May	2
May 10.	Paving	Buffalo, N. Y.	May	9
May 11.	Road improvements	Wendell, Mass.	May	9
May 11.	Grading, etc.,	Terre Haute, Ind.	Apr.	25
May 11.	Paving	Peru, Ind.	Apr.	25
May 13.	Paving, etc.,	Lewiston, Pa.	May	9
	Advertised, Eng. News, May 9.			
May 14.	Road	Seattle, Wash.	May	9
May 14.	Macadam, etc.,	Upper Marlboro, Md.	May	9
May 14.	Paving, etc.,	Chicago, Ill.	May	9
May 14.	Paving, etc.,	Crookston, Minn.	May	2
May 15.	Grading, etc.,	New York, N. Y.	May	2
May 15.	Roads	grading, Hawaii	Apr.	25
May 15.	Paving sewers, etc.,	Natchez, Miss.	Apr.	18
	Advertised, Eng. News, Apr. 18 to May 9.			
May 15.	Macadam,	Chicago, Ill.	May	9
May 15.	Paving	Newton, Iowa.	May	9
May 15.	Sidewalks	Buffalo, N. Y.	May	9
May 15.	Roads	Providence, R. I.	May	9
May 16.	Sidewalk	New York, N. Y.	May	9
May 16.	Macadam, etc.,	Towson, Md.	May	9
May 16.	Macadam, etc.,	Paulding, Ohio.	May	9
May 16.	Paving, etc.,	Bluefield, W. Va.	Apr.	18
	Advertised, Eng. News, Apr. 18 to May 2.			
May 18.	Paving, etc.,	San Francisco, Cal.	May	9
May 18.	Paving, etc.,	Gary, Ind.	May	9
	Advertised, Eng. News, May 9.			
May 18.	Walks	Ft. Benj. Harrison, Ind.	Apr.	25
May 20.	Paving, etc.,	Des Moines, Iowa.	May	9
May 20.	Paving, etc.,	Webb City, Mo.	May	9
May 20.	Road	Woodstock, Vt.	May	9
May 20.	Sidewalks, etc.,	Montgomery, Ala.	May	9
May 20.	Paving	Goshen, Ind.	May	9
May 21.	Paving	Bridgeport, Conn.	May	2
	Advertised, Eng. News, May 2-9.			
May 21.	Highway	Norwalk, Ohio.	May	2
May 21.	Road	Pittsfield, N. H.	May	9
May 21.	Macadam, etc.,	Plymouth, Ohio.	May	9
May 22.	Highway	Mansfield, Ohio.	May	2
May 22.	Grading, etc.,	New York, N. Y.	May	9
May 23.	Roads	Cape May, N. J.	May	2
	Advertised, Eng. News, May 2-16.			
May 23.	Highway	Lisbon, Ohio.	May	9
May 27.	Curb, etc.,	Albert Lea, Minn.	May	2
May 28.	Broken stone, etc.,	New York, N. Y.	May	9
June 1.	Sidewalks	Ft. D. A. Russell, Wyo.	May	9
June 1.	Sidewalks	Ft. Logan H. Roots, Ark.	May	9
June 1.	Sidewalks, etc.,	Ft. Mott, N. J.	May	9
	Advertised, Eng. News, May 9 and 16.			
June 1.	Roads, etc.,	Ft Screven, Ga.	May	9
June 1.	Paving, etc.,	Indianapolis, Ind.	May	9
June 1.	Macadam	Ft. Hancock, N. J.	May	2
	Advertised, Eng. News, May 2-23.			
June 25.	Paving, etc.,	Reynoldsville, Pa.	May	9

MISCELLANEOUS CONTRACTS.

May 10.	Post fence	Prescott, Ariz.	Apr.	18
May 10.	Cement	Winnipeg, Man.	May	2
May 10.	Double tracking	Intercolonial Ry.	May	2
May 11.	Levee	Vicksburg, Miss.	Apr.	25
May 13.	Steam vessel repairs	New York, N. Y.	May	2
May 13.	Cement	New York, N. Y.	May	2
May 13.	Dredging	New York, N. Y.	May	2
May 14.	Wharf	New Orleans, La.	May	2
May 14.	Subway	New York, N. Y.	Apr.	25
May 15.	**Dredging**	**Albany, Ill.**	**Mar.**	**28**
	Advertised, Eng. News, Mar. 28 to Apr. 18.			
May 15.	Drainage tunnel	Cripple Creek, Colo.	Apr.	25
	Advertised, Eng. News, Mar. 28.			
May 15.	Marine boiler	Cleveland, Ohio.	Apr.	25
May 15.	Subways	Washington, D. C.	Apr.	18
	Advertised, Eng. News, Apr. 18 to May 2.			
May 15.	Dump scows	Cincinnati, Ohio	Apr.	25
	Advertised, Eng. News, Apr. 25 to May 9.			
May 15.	Street signs	New York, N. Y.	May	9
May 15.	Ditch, Fort Snelling, Minn.		May	9
May 16.	Ventilating equipment	New York, N. Y.	May	9
May 16.	Tunnel entrance	Boston, Mass.	May	9
May 17.	Repairing baths	New York, N. Y.	May	9
May 17.	Supplies, piles	New York, N. Y.	May	9
May 17.	River improvement	Buffalo, N. Y.	May	9
May 18.	Grading, etc.,	Denison, Bonham & New Orleans	May	9
May 18.	Breakwater superstructure	Buffalo, N. Y.	Apr.	25
	Advertised, Eng. News, Apr. 25 to May 16.			
May 20.	Iron, steel, etc.,	Watertown, Mass.	May	2
May 20.	Fire system	Washington, D. C.	May	2
May 20.	French scrap dump cars	Panama.	May	9
May 20.	Jetty construction	Wilmington, Del.	May	9
	Advertised, Eng. News, May 9 and 16.			
May 21.	Grading, etc.,	Georgia & Florida Ry.	May	9
	Advertised, Eng. News, May 9 and 16.			
May 21.	Repairing ferry boats	New York, N. Y.	May	9
May 21.	Riprap embankment	New York, N. Y.	May	9
May 21.	Engineering supplies	Tompkinsville, N. Y.	May	2
May 21.	Riprap, New Haven, Conn.		Apr.	25
	Advertised, Eng. News, Apr. 25 to May 16.			
May 21.	Light-house supplies	Tompkinsville, N. Y.	Apr.	25
	Advertised, Eng. News, Apr. 25 to May 16.			
May 22.	Dredging, New London, Conn.		Apr.	25
	Advertised, Eng. News, Apr. 25 to May 16.			
May 22.	Pier, breakwater, Erie, Pa.		May	2
May 22.	Railway Cairo & Thebes		May	2
	Advertised, Eng. News, May 2-16.			
May 22.	Headstones	Boston, Mass.	May	2
May 22.	Wharf, Sorel, Que.		May	9
May 24.	Levee bldg. machine	New Orleans, La.	May	2
	Advertised, Eng. News, May 2-16.			
May 25.	Dredging	Boston, Mass.	May	2
May 25.	Ditch, Vandalia, Ill.		May	9
May 27.	Dredging	New York, N. Y.	May	2
	Advertised, Eng. News, May 2 to May 23.			
May 27.	Pier superstructure, Harbor Beach, Mich.		Apr.	25
	Advertised, Eng. News, Apr. 25 to May 16.			
May 29.	Creosoted lumber, rubble stone	Charleston, S. C.	May	9
	Advertised, Eng. News, May 9 to 23.			
May 31.	Dredging	Tarrytown, N. Y.	May	2
	Advertised, Eng. News, May 2 to May 23.			
June 1.	Harbor excavation	Buffalo, N. Y.	May	2
	Advertised, Eng. News, May 2 to May 23.			
June 1.	Repairing Statue of Liberty	New York.	May	9
June 1.	Wharf repairs, Ft. Washington, Md.		May	9
June 1.	Levee, Memphis, Tenn.		May	9
	Advertised, Eng. News, May 9 to 23.			
June 1.	Breakwater superstructure, Oswego, N. Y.		May	9
	Advertised, Eng. News, May 9 to 30.			
June 3.	Dredging, Baltimore, Md.		May	9
	Advertised, Eng. News, May 9 to 30.			
June 4.	Lock and dam	Irvine, Ky.	May	9
	Advertised, Eng. News, May 9 to 23.			
June 6.	Riprap, Ashland, Wis.		May	9
	Advertised, Eng. News, May 9 to 30.			
June 6.	Dike, Grand Chain, Ill.		May	9
	Advertised, Eng. News, May 9 to 30.			
June 7.	Riprap, Bridgeport, Conn.		May	9
	Advertised, Eng. News, May 9 to 30.			
June 7.	Dredge, Philadelphia, Pa.		May	2
	Advertised, Eng. News, May 2 to May 23.			
June 15.	Dredging, Hawaii		Apr.	25
July 1.	Tunnel, New Zealand (Foreign).		Sept.	13
	Advertised, Eng. News, Sept. 13 to Mar. 14.			
Sept. 2.	Competitive plans for wharf, etc., Sweden (Foreign)		May	2

CIVIL SERVICE EXAMINATIONS.

May 15.	Asst. Physiologist, Washington, D. C.	Apr. 25
May 15.	Electrical draftsman, North Chicago, Ill.	May 2
May 15.	Plant Pathologist, Washington, D. C.	Apr. 25
May 15.	Aids, Washington, D. C.	May 2
May 15.	Farrier, Ft. Riley, Kan.	May 2
May 27.	Stationary Engineer, New York, N. Y.	May 2
May 22.	Scientific Asst., Washington, D. C.	May 9
May 22.	Statistician, Washington, D. C.	May 9
May 25.	Highway Inspector, Albany, N. Y.	May 9
	Advertised, Eng. News, May 9.	
May 25.	Arch. Draftsman, Albany, N. Y.	May 9
	Advertised, Eng. News, May 9.	
May 25.	Bridge Draftsman, Albany, N. Y.	May 9
	Advertised, Eng. News, May 9.	
May 25.	Chainman, Albany, N. Y.	May 9
	Advertised, Eng. News, May 9.	
May 25.	Engineering Examiner, Albany, N. Y.	May 9
	Advertised, Eng. News, May 9.	
May 29.	Electrician, New Rochelle, N. Y.	May 9
May 29.	Engr., Sawyer, Fort Defiance, Ariz.	May 9
June 4.	Asst. Engr., New York, N. Y.	May 9
	Advertised, Eng. News, May 9.	

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

AVONDALE & HACKER VALLEY.—Charter has been granted in West Virginia to this company, which proposes to build a line from Avondale, on the Baltimore & Ohio Railroad, to a point in Hacker Valley, Webster County. The incorporators are R. M. Caines, J. M. Lewis, William Rexroad, A. B. Bean and H. H. Lewis, Jr., all of Newlonton, W. Va.

BATON ROUGE, HAMMOND & EASTERN.—Press report from New Orleans, La., states that bids for construction of this line from Baton Rouge to Hammond, La., will be received on May 16. Line will be about 166 miles long, extending from Baton Rouge, La., to Hammond and Covington, La., Pickayune and Beaumont, Miss. Sol. Wexler, New Orleans, is Pres. C. H. Fisk, Hammond, La., is Ch. Engr.

BROXTON, HAZLEHURST & SAVANNAH.—H. C. McFadden, Pres., Fitzgerald, Ga., states that this company has purchased the Ocilla & Valdosta Railroad, extending from Broxton to Ocilla, Ga., with a branch to Irwinville, total of 34 miles. Extensions are not now being considered.

COLORADO, COLUMBUS & MEXICAN.—A. O. Bailey, Pres., Columbus, N. Mex., advises us that this company is now negotiating for capital for building its line. Surveys are not yet made. Right-of-way is partly obtained. The railway will extend from Columbus, N. Mex., to Salt Lake City, Utah, 1,000 miles. Work will be heavy construction.

DENISON, BONHAM & NEW ORLEANS.—Bids are asked until May 18 for the grading of 20 miles, more or less, of an extension of the Denison, Bonham & New Orleans R. R. from Ravenna, Tex., easterly to Bois D'Arc Creek in Fannin County; also for the trestle work, ties and track-laying for said line. Bids may be separate for each kind of work, and for all or any part. Information as to maps, profile, etc., of this line may be had from E. D. Steger, of Bonham, Tex. Address J. T. Munson, Pres., Southern Railway Construction Co., Denison, Tex.

FORT SMITH & WESTERN.—Regarding the report that this company would extend its line southwest from El Reno, Okla., W. E. Crane, Vice-Pres. and Gen. Mgr., Fort Smith, Ark., advises us that "the stringent railroad rules enacted by the constitution at Guthrie makes railroad building too uncertain to plan any extensions at present."

FREDERICKSBURG TERMINAL.—Temple D. Smith, Fredericksburg, Tex., states that this company proposes to build a railroad from Fredericksburg to a connection with the San Antonio & Aransas Pass, a distance of 24 miles. The line has been surveyed and there is an old grade 17 miles long, which it is proposed to utilize, leaving only seven miles to be graded. The company has not yet been incorporated.

GEORGIA & FLORIDA.—Bids are asked until noon, May 21, by A. E. Hess, Ch. Engr. of the Augusta Construction Co., 519 Dyer Bldg., Augusta, Ga., for grading, piling, trestle bridging, drainage, etc., for the connecting links of the G. & F. Ry., between Augusta, Ga., and Madison, Fla., about 150 miles. Bids will be received for the whole work or for parts, but no proposal will be received for less than three continuous miles, except at specified points. John Scott, Pres. (Advertised, Engineering News.)

GEORGIA.—J. L. Phillips, Thomasville, Ga., Pres. of J. L. Phillips & Co., lumber manufacturers, states that the firm will build a railroad south from Thomasville into timber land recently purchased. It will be 25 miles long.

GOTEBO & SOUTHWESTERN.—This company, with headquarters at Gotebo, Okla., has been chartered, with $300,000 capital, to build southwest from Gotebo, Kiowa County, across the Wichita Mountains to Frederick, Comanche County, Okla., 45 miles. The incorporators are Herbert E. Colby, Peter Richert, Robert B. Wells, John L. Kliewer, all of Gotebo; and John W. Onstott, of Cooperton.

GULF, COLORADO & SANTA FE.—C. F. W. Felt, Ch. Engr., Galveston, Tex., informs us that survey has been made covering a connection with the Texas & Gulf from Center, Tex. No further steps have been taken. Noted last week.

LAWTON, WICHITA FALLS & NORTHWESTERN.—J. M. Bellamy, Pres., Lawton, Okla., advises us that contracts will be let by this company within the next three months for building its proposed line between Lawton, Okla., and Wichita Falls, Tex., 49 miles. Surveys have been made and right-of-way and capital secured. A. J. Robinson is Ch. Engr., at Frederick, Okla.

OWENSBORO & ROCKPORT TERMINAL & BRIDGE CO.—E. T. Franks, Vice-Pres., Owensboro, Ky., informs us that company may let construction contracts this summer or fall. The line will be twelve miles long. As noted on March 28, this company has been organized in Owensboro, Ky., with a capital of $100,000. The articles permit the company to incur an indebtedness of $1,000,000. The object of the company is to build a line from Owensboro to Rockport, Ind., connecting at Rockport with the Southern Railway, giving Owensboro a northern outlet. A bridge will be constructed across the Ohio River a few miles above Owensboro. The officers are: A. H. Kennedy, of Rockport, Ind., Pres.; E. T. Franks, First Vice-Pres.; F. A. Ames, Second Vice-Pres.; James H. Parrish, Treas., and George H. Cox, Secy., all of Owensboro. The O'born Engineering Co., of Cleveland, Ohio, has charge of the engineering work. Survey has not been made nor has right-of-way been secured.

NATCHITOCHES EAST & WEST.—C. H. Teal, Pres., Colfax, La., announces that this company, which has filed articles of incorporation in Louisiana, contemplates the construction of a railroad from Beaumont, Tex., to Birmingham, Ala., passing through Maney, Natchitoches, Colfax, Pollock, Harrisonburg and Jena, La., and Vicksburg, Miss. The immediate intention is to build from Colfax to Natchitoches, a distance of 40 miles, and work is to be started as soon as the parishes through which the line will pass vote a five-mile tax for ten years. The company proposes to take over a logging road running from a connection with the Kansas City Southern at Maney toward Natchitoches. This road is about ten or twelve miles long. The company will also take over or buy 16 miles of road built by the Big Creek Lumber Co., extending from Colfax to Pollock. It is also proposed to acquire a timber road owned by the White Sulphur Lumber Co., running from Jena to Harrisonburg on the Ouachita River. L. Caspari, of Natchitoches, is Vice-Pres.; J. H. Williams, of Colfax, is Treas.; and C. H. Fernstermaker, of Tremont, La., is Engr. Noted on May 2.

NEVADA.—A bill has been passed by the Nevada Legislature and signed by the governor to permit Walter P. Jennings, of Salt Lake City, Utah, to construct a railroad 150 miles long in Nevada from Moapa, on the San Pedro, Los Angeles & Salt Lake, to the Grand Gulch mining district. It is proposed to build 25 miles of the line this year. H. E. George and Harry Gentry, of St. Thomas, Nev., are associated with Mr. Jennings in the undertaking.

OCILLA & VALDOSTA.—See Broxton, Hazlehurst & Savannah.

PITTSBURG & GILMORE.—We are officially advised that this company has been incorporated to build from Armstead, Mont., to Gilmore, Idaho, 70 miles. Surveys are made and right-of-way is secured. W. A. McCutcheon is Pres., 307 Fourth Ave., Pittsburg, Pa.; W. H. Bacon is Ch. Engr., Junction, Idaho. Capital stock, $2,000,000.

PITTSBURG, BINGHAMTON & EASTERN.—H. A. Schwanecke, Vice-Pres. and Ch. Engr., Canton, Pa., advises us that the HOLBROOK, CABOT & ROLLINS CORPORATION, 6 Beacon St., Boston, has contract for building the section between Binghamton, N. Y., and Clearfield, Pa. Twenty-one miles are graded and four miles of track are laid. There will be 254 miles of main line and 44 miles of branch line. Noted last week.

RALEIGH & SOUTHWESTERN. — This company has given a mortgage to secure an issue of 4 per cent. bonds to the amount of $1,500,000 to provide for an extension of the road from a connection with the Piney branch of the Chesapeake & Ohio at or near Raleigh, W. Va., up the Piney River and its tributaries and over the divide and thence down the tributaries of the Guyandotte River in Raleigh or Wyoming County. Also for an extension from Raleigh up Beaver Creek into the valley of Glade Creek. At present the line is under construction from the mouth of Soak Creek in Raleigh County, West Virginia, up that stream into the valley of Winding Gulf Creek. JOHNSON & BRIGGS, of Richmond, Va., are the contractors. The road is a branch of the Chesapeake & Ohio. H. Pierce is Engr. of Construction, Richmond, Va.

TENNESSEE.—C. B. Benedict, Vice-Pres. of the Sylco Lumber Co., Nashville, Tenn., states that a branch railroad about ten miles long will be built from the company's mill on the Louisville & Nashville R. R., in Polk County, into timber lands recently acquired.

VIRGINIA.—George E. Davis, of George E. Davis & Co., lumber manufacturers, Bristol, Tenn., announces that he has purchased over 5,000 acres of timber lands near Elliston, Va. Robert Gray, C. E., of Bristol, will have charge of the tramroad construction.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

BUFFALO, N. Y.—The Buffalo, Rochester & Easton Ry. Co. has been incorporated to build and operate a standard-gage railroad by steam, electricity or gasoline from Buffalo to Rochester and thence to Troy, a distance of 300 miles. The principal office of the road is to be located in Rochester and the line is to pass through the counties of Erie, Genessee, Olean, Monroe, Wayne, Cayuga, Onondaga, Madison, Oneida, Herkimer, Montgomery, Schoharie, Schenectady, Albany and Rensselaer. The capital stock is $3,500,000. The directors are Ralph G. Gillett, Henry W. Ely and Arthur D. Robinson, of Westfield, Mass.; Arthur W. Easton, of Pittsfield; Franklin Weston, of Dalton; Henry W. Bowman and Fred T. Levy, of Springfield; Joseph O. Skinner, of Holyoke; John J. Whipple, of Brockton, and James F. Sharpe, of Manchester, all in Massachusetts, and Joseph H. Caldwell, of Troy, N. Y.

ELIZABETHTOWN, PA.—The Elizabethtown & Deodate Street Ry. Co. has applied for a charter to build a line from Elizabethtown, Lancaster County, to Hockersville, Dauphin County, about ten miles. This line, when completed, will finish the through line from Harrisburg to Philadelphia. At present there is a continuous street railway line from Philadelphia to Elizabethtown, and the new line will fill the gap between the latter place and Hockersville, where it will connect with the Hummelstown & Campbellstown Street Ry. line, which runs from Hummelstown to Palmyra, going through Hockersville. At Hummelstown the line could connect with the line of the Central Pennsylvania Traction Co., reaching Harrisburg in that way. The incorporators of the new company are William H. Lebkicker, of Hershey; John E. Snyder, Lancaster; S. C. Strehr, Hummelstown; C. S. Maulfair, of Annville, and E. B. Snavely, of Hershey.

NEWBERRY, S. C.—The franchise recently granted by the City Council to Henry L. Parr and associates for building an electric railway in Newberry has been increased from 25 to 40 years. The franchise requires that the work on the construction of the line begin within the next 18 months, and requires that three miles of track shall be laid within two years. Power will be secured from the Parr Shoals Power Co., on Broad River, which is now being developed. Noted on April 4.

MACON, GA.—At a recent meeting of the incorporators and stockholders of the Macon, Americus & Albany Electric Ry. Co. the following officers were elected: Jos. S. Davis, Pres.; W. J. Kincaid, First Vice-Pres.; John T. Moore, Second Vice-Pres.; N. J. Cruger, Secy.; W. J. Massee, Treas.; Stuart C. Davis, Asst. Secy and Treas., and M. Felton Hatcher, Gen. Counsel. The following executive committee was appointed: W. J. Massee, Chn.; J. C. Walker and John T. Moore. The board of directors consists of the following: W. J. Massee, M. Felton Hatcher, John T. Moore, M. H. Massee, W. J. Kincaid, J. N. Neel, D. W. Hill, J. S. Davis, J. C. Walker, A. C. Riley and N. J. Cruger. Noted on April 18.

ATLANTA, GA.—The Georgia Electric R. R. Co. has been chartered to build an extension from Brookwood to Buckhead for the Georgia Railway & Electric Co. The line will be from three miles to four miles long. Capital stock, $10,000. The incorporators are: P. S. Arkwright, G. W. Brine, T. K. Glenn, W. H. Glenn, H. N. Hurt, S. E. Simmons, R. E. Cullinane, W. B. Stovall, F. M. Sisk and W. H. Wright, who are also officers of the Georgia Ry. & Electric Co. The incorporators also ask for the right of eminent domain in the matter of lighting privileges, if it is desired to establish this branch of enterprise in connection with the trolley line. An amendment has been also granted to the charter of the Georgia Railway & Electric Co. to extend its line from East Point to Hapeville, a distance of about three miles.

GADSDEN, ALA.—The Sand Mountain Electric Co. has been organized, and besides furnishing electric power, proposes to build and operate a railroad by either steam or electricity from Gadsden via Alabama City, Attalla, Boaz and Albertville to Scottsboro, Ala. Capital, $50,000. The incorporators are Edgar O. McCord, Albertville, Ala., Pres.; Rena B. McCord, Leon C. McCord, G. M. E. Mann, W. E. Snead, J. B. Roberts and the Albertville Realty Co.

CLARKSDALE, MISS.—The Lake View Traction Co. has been chartered here by G. W. Agee, R. F. Tate, Anthony Walsh, W. A. Percy, H. E. Craft and others to build and operate an electric railway between Memphis, Tenn., and Clarksdale, Miss. Capital, $500,000.

WINNFIELD, LA.—J. D. Lee, Secy. of the Winnfield Business League, is interested in a project to construct an electric railway in this town. The system will be operated by gasoline electric motors and will extend through the principal streets of the town and out into the country for a distance of 3½ miles.

COLUMBUS, OHIO.—R. P. Hankey; G. W. Meeker, New Hayden Bldg.; Emmett Tompkins, The Oakland; Eugene Gray, New Hayden Bldg., and W. A. France, are the incorporators of the Columbus, Marysville & Bellefontaine Ry. Co., which will construct a line to connect the cities named in its title.

The Columbus, Kenton & Lima Ry. Co., which is to be incorporated soon, will be a consolidation of the Columbus, Urbana & Western, the Lima, Kenton & Marion Traction Co. and the Delaware, Magnetic Springs & Northern Traction Co. All the companies are now under the control of J. A. Vandegrift and W. H. Ogan, who plan to build the Columbus, Urbana & Western to Larue, where it will connect with the Lima, Kenton & Marion, giving almost a straight line toward Toledo. The capital of the proposed company will be about $4,000,000.

YOUNGSTOWN, OHIO.—Officers of the Lake Erie & Youngstown R. R. Co. have been elected as follows: J. H. Ruhlman, of Youngstown, Pres.; Geo. J. Chapman, of Conneaut, Ohio, First Vice-Pres.; W. F. Stanley, Conneaut, Second Vice-Pres.; G. M. Brown, Conneaut, Treas.; W. H. Ruhlman, North Lima, Secy. Right-of-way is being secured. Noted on April 11.

FORT WAYNE, IND.—The Toledo & Fort Wayne Electric Railway Co. has been incorporated to build and operate an electric railway to connect Fort Wayne and Bryan, Ohio, and the intermediate towns and cities. The company also proposes to manufacture or generate electricity for heat, light and power purposes for the citizens along the line. John H. Zimmerman, Ira Grubb, Thos. Hood, G. A. Reeder and Scott Swain are the incorporators. It is said that the line, when built, will form an important link in the proposed Toledo, Indianapolis & St. Louis system. The capital stock is $100,000.

JACKSON, MICH.—The Detroit, Plymouth & Northville Railway has been acquired by the Jackson, Ann Arbor & Detroit Railway Co., organized under the steam railway laws of Michigan, with capital stock of $1,900,000, of which $400,000 is 6 per cent. preferred. Company will operate electric railway from Jackson to Detroit, and from Wayne to Northville. The company has 35 miles of completed road. There are no outstanding bonds, but an authorized issue of $1,500,000, the proceeds of which are to be used for completing construction of the railway into Detroit. The officers of the company are: Chas. W. Osborne, Pres.; W. A. Boland, Vice-Pres.; N. S. Potter, Treas.; Henry R. Carse, Secy. Mr. Boland is Vice-Pres. of the Jackson Consolidated Traction Co. and Pres. of the Detroit, Plymouth & Northville Co., with offices at 31 Nassau St., New York.

CHICAGO, ILL.—The Illinois & Western Railway Co. has been incorporated, with a capital stock of $5,000, to construct an electric railway from East Dubuque, Ill., to Dubuque, Iowa; thence to Galena, Ill. The directors are: Conrad H. Poppenhusen, Evanston, Ill.; Joseph L. McNab, Evanston, Ill.; Edward T. Fox, Michael Gesas and Wm. G. Hamilton, of Chicago. The principal office of the company will be at 100 Washington St., Chicago.

The Chicago, Ottawa & Peoria Railway Co. has been organized with a capital stock of $500,000. The road is to be constructed from Chicago to Peoria and from Ottawa to Princeton. The incorporators and first board of directors are H. F. Chubbuck, Ottawa, Ill.; W. H. Carnahan, C. A. Wright, Charles Zilly and George M. Mattis, Champaign, Ill.

The Chicago Union Traction Co. has awarded contracts as follows: The GENERAL ELECTRIC CO. for 1,600 electric motors. Total cost about $500,000. The LORAIN STEEL CO. for 10,000 [illegible] of grooved rails as approved by the [illegible] ances. Total cost about $1,000,000. The [illegible] SON CO. for electric [illegible] 6,000 kilowatts a day. J. [illegible] Mgr., 444 North Clark St.

FAIRFIELD, IOWA.—W[illegible] formed that the Iowa-Mi[illegible] Power Co. will let contra[illegible] structing its line from Fai[illegible] Mo., 52 miles. Harrison Bl[illegible] Keosauqua, Iowa. J. W[illegible] Engr., Fairfield, Iowa. [illegible] made and right-of-way ob[illegible] contracted for.

KANSAS CITY, KAN.—T[illegible] Lawrence Railroad Co. has [illegible] charter, with a capital s[illegible] The first board of director[illegible] Benjamin Schnierle, J. E. [illegible] Schuepbach, H. C. Downs a[illegible] all of Kansas City, Kan. T[illegible] poses to construct and ope[illegible] gage railroad between Law[illegible] City, passing through [illegible] Leavenworth and Wyandotte[illegible] to be 37 miles in length. M[illegible] be gasoline motors.

OMAHA, NEB.—C. D. [illegible] Omaha, has been awarded co[illegible] ing the Omaha & Hastings E[illegible]

CHEYENNE, WYO.—The [illegible] granted a 25-year street railw[illegible] Eugene Sweeney, of Denver, [illegible]

ST. LOUIS, MO.—The St[illegible] Haute & Quincy Traction Co. [illegible] porated in Illinois to build a [illegible] Haute, Ind., to Quincy, Ill., [illegible] Mo. The incorporators and di[illegible] ward Yates, Pittsburg; Peter C[illegible] Ill.; H. T. Willson, Virden, [illegible] Simons, Virden, Ill., and E. [illegible] Springfield, Ill.

LITTLE ROCK, ARK.—The Electrical Installation Co., Chicago, advises us that the information published last week, to the effect that this company had contract for building the Little Rock & Hot Springs Electric Ry., is incorrect, as it has no connection with this railway project.

EL PASO, TEX.—The El Paso Suburban Railway Co., capital $10,000, has been incorporated by Frank R. Tobin, John D. Tobin and Windham Camp.

GAINESVILLE, TEX.—The Gainesville Electric Railway & Light Co. has changed its name to the Gainesville Traction Co.

LAKEPORT, CAL.—The Sonoma & Lake County Railway Co. has been incorporated with a capital stock of $1,000,000. M. C. Dickinson, of Ukiah, is Pres.; J. E. Fulton, Vice-Pres.; W. S. Fry, Secy.; J. R. Garner, Treas.; J. W. Preston, J. A. Sparks, D. F. MacIntire, W. P. Meredith and W. N. Johnson. It is the purpose of the company to construct an electric railway from Cloverdale to Lakeport, with a branch to Kelseyville. The survey has already been made from Lakeport to Cloverdale, a distance of 27 miles, with a maximum grade of not over 3%, with one tunnel. The profiles and maps are being made out, and it is the intention to begin work on the road soon.

REDLANDS, CAL.—The Redlands Central Railway Co. has filed articles of incorporation with the County Clerk. The company plans to build an electric railway from Redlands to Riverside, also to Craftonville. The total length of road is to be about 25 miles. It is capitalized at $1,000,000. The directors are J. H. Fisher, O. T. Higgins, E. S. Graham and F. E. Sanford. A. G. Hubbard is Treas.

EDMONTON, ALTA.—R. R. Keely, City Engr., advises us that contracts for track laying for proposed municipal electric railway have been let to W. H. HARVEY, Vancouver, B. C., and to the BITULITHIC CO., Ltd., Winnipeg. Noted on March 28.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—E. S. Spencer is designing a 2-story brick purifier house for the Central Union Gas Co., 350 Alexander Ave., New York, to be erected at 132th St. and Walnut Ave., and to cost about $30,000.

Bids are asked until 2 p. m., May 16, by James W. Stevenson, Comr. of Bridges, for installing ventilating system and electrical equipment for the Manhattan Subway Station of the Williamsburg (new East River) Bridge.

The following are the bids received on April 29 by C. B. J. Snyder, Supt. School Bldgs., for installing electric equipment in School No. 43, Boro. of the Bronx: Gore Duggan Engineering Co., 205 Broadway, $12,325; L. F. Benn, 725 Broadway, $12,455; T. FREDERICK JACKSON, Inc., 302 Columbus Ave., $11,552 (awarded contract); Griffin & Co., $11,667, and Commercial Constr. Co., $11,560.

Bids are asked until May 13 by C. B. J. Snyder, Supt. School Bldgs., New York, for installing electric equipment in addition to and alterations in Public School No. 22, Flushing, Boro. of Queens.

NEW YORK, N. Y.—Bids are asked by C. B. J. Snyder, Supt. School Bldgs., until 11 a. m., May 20, for installing electric equipment in new Public School No. 94, on westerly side of Sixth Ave., between 50th and 51st Sts., Boro. of Brooklyn.

CANASTOTA, N. Y.—The contract for erecting building, gas and electric power plants of the Central New York Power Co., in Canastota, has been awarded to JAMES GRAY, of Utica, for $13,000. It is said that the plant complete, including machinery, will cost about $30,000.

NEWARK, N. J.—The Special Committee on Municipal Lighting of Common Council is reported to have approved the report of Fred. O. Runyon, Engr., 122 Market St., that a municipal electric light plant operated by steam be installed at Belleville pumping station. It decided to recommend that Council adopt the resolution, providing for calling a special election to vote on the question of expending $1,000,000 for the construction of such a plant.

TRENTON, N. J.—J. H. & W. J. MORRIS have been awarded the contract for erection of the addition to be made at the electric plant of the Public Service Corporation in the rear of North Warren St. The steel frame work will be supplied by the AMERICAN BRIDGE CO., 42 Broadway, New York. Work will be started immediately. Jos. A. Wilson, Trenton, is Supt.; Dudley Farrand, Newark, is Gen. Mgr.

MILTON, PA.—Bids are asked until 8 p. m., May 14, by the Town Council, for lighting the streets of the Borough of Milton for a period of five years from April 1, 1908. John H. Foust is Chn. Light Com., Milton.

WASHINGTON, D. C.—Capital Traction Co. has awarded contract to JAMES L. PARSONS, 17th St. and Pennsylvania Ave., N. W., for construction of reinforced-concrete stack ten feet in diameter and 175 feet high at its power-house at Grace and Potomac Sts., N. W. Cost, $5,000. D. S. Carll, Washington, is Supt.

Bids are asked until May 24 by the Building Commissioner, Dept. of Agriculture, for furnishing lighting fixtures for two laboratory buildings for the Dept. of Agriculture, Washington, D. C. B. T. Galloway is Chn.

Bids are asked by Capt. John Stephen Sewell, Constr. Officer, U. S. Soldiers' Home, Washington, until June 3, for piping and electrical wiring within power house and through grounds and for refrigeration plants at U. S. Soldiers' Home, Washington. (Advertised, Engineering News.)

WASHINGTON, D. C.—The WESTINGHOUSE ELECTRIC & MFG. CO., Westinghouse Bldg., Pittsburg, has been awarded the contract to furnish the electrical equipment for the power plant of the new union station in Washington, which is being built by the Washington Terminal Co., and which is an adjunct of the Baltimore & Ohio and the Pennsylvania Railroads. The work will be done by the local branch of the Westinghouse Co. The contract calls for an expenditure of approximately $500,000. As soon as plans are matured a force of men will work under the supervision of K. E. Sommer, from the Baltimore office, who will be the Engineer-in-Charge. There are other electrical contracts yet to be awarded. D. D. Carothers, Baltimore, is Ch. Engr., B. & O. R. R. Co.; Alexander C. Shand is Ch. Engr., P. R. R. Co., Philadelphia.

CLIFTON FORGE, VA.—Bids are asked until May 29, by E. A. Snead, Pres. Town Council, for purchase of franchise for construction, maintenance and operation of a gas manufacturing plant, for a period of 30 yrs. J. A. Gleason is Chn. Water and Light Com.

LANCASTER, S. C.—John T. Stevens, J. H. Witherspoon and M. S. Witherspoon have applied for franchise to install electric-light plant.

VIENNA, GA.—City will expend $15,000 in installing electric light and sewerage systems. Bonds were voted April 8. B. F. Forbes is Mayor.

PENSACOLA, FLA.—The following bids were received May 4 at the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for boiler-room machinery for the central power plant, Navy Yard, Pensacola: C. L. de Muralt, 114 Liberty St., New York, N. Y., $39,380; Heine Safety Boiler Co., 1120 Pennsylvania Bldg., Philadelphia, $35,231; the Babcock & Wilcox Co., 85 Liberty St., New York, $33,476.

DORA, ALA.—Bids are asked by the Committee on Electric Lighting, until noon, June 6, for complete installation and erection, or material and machinery only, for a municipal electric lighting plant. Thornton Co., 203 Chalifoux Bldg., Birmingham, Ala., is Engr.

CHATTANOOGA, TENN.—The AMERICAN GAS EQUIPMENT CO., New York, N. Y., has contract to construct an addition to the plant of Chattanooga Gas Co. Estimated cost, $100,000.

COLUMBUS, OHIO.—Bids are asked at the office of the Secretary of the State Sanitorium Commissioners until May 14, for furnishing materials and labor for construction of power house for the Ohio State Sanatorium. C. O. Probst, M. D., is Secy.

CINCINNATI, OHIO.—It is reported that the Factory Power Co. has purchased property from the Milling Machinery Co. and the Factory Colony Co., on which it will erect a $250,000 plant, to be used to supply power, light, heat, electricity, etc., to all the industries in the factory colony near Oakley.

ATHENS, OHIO.—Contracts for enlarging and equipping the city electric light plant have been awarded to the ROSS-HULL ELECTRIC CO., Columbus, and the POST CLOVER ELECTRICAL CO., of Cincinnati, amounting to about $5,000.

LAWRENCE, IND.—Bids are asked until June 1 by George H. Penrose, Q. M., Fort Benjamin Harrison, for erection of an electric plant, lighting fixtures, transformer sub-station, etc.

SPRINGFIELD, ILL.—James L. Adams, Jr., has completed plans and specifications for the central station to be erected on Madison and Fourth Sts.; also plans for a conduit system on 20 blocks in the business section of the city. Frank H. Hamilton is City Engr.

BEARDSTOWN, ILL.—GEORGE F. GOODNOW, Chicago, has been awarded contract to erect a gas and electric-light plant here.

CHICAGO, ILL.—Bids are asked until May 21 by John J. Hanberg, Comr. Pub. Works, for furnishing electric motors and controller for electric power equipment of the South Halsted St. lift bridge over the south branch of the Chicago River.

QUINCY, ILL.—The Quincy Gas, Electric & Heating Co. has decided to make improvements, including the construction of a gas tank and the laying of four or five miles of pipe. H. O. Channon, Quincy, is Mgr.

WAUSAU, WIS.—Articles of incorporation of the Bean's Eddy Power Co. have been filed in the office of the Register of Deeds at Wausau. The incorporators are P. C. Hart, Charles E. Guenther and H. G. Flieth, and the capital stock is $36,000. The incorporators are the owners of the land adjoining the water power at Bean's Eddy, on the Wisconsin River, and incorporated now for purposes of convenience in the matter of securing a charter to construct a dam, developing the power, selling and transmitting electricity, etc., and raising the necessary funds to carry on this work. Bean's Eddy is situated between Knowlton and Mosinee, on the Wisconsin River, and is about half way between Wausau and Stevens Point. A 14-foot head of water capable of developing 3,000 HP. at low water, can be held here. As soon as a charter to construct the dam can be secured, work will be started. Cost, $75,000.

ST. PAUL, MINN.—It is reported that the Senate has appropriated $25,000 for a power and lighting plant at the State Fair grounds.

WADENA, MINN.—M. J. SCHMITZ has contract to erect an electric light plant here. The building will be constructed of cement.

TOPEKA, KAN.—Plans are being prepared for an addition to be built to the electric light plant here. H. K. Goodrich, Topeka, is Supt.; C. B. Burge is City Clerk.

BEATRICE, NEB.—The Beatrice Gas & Power Co. is contemplating expending about $40,000 for improvements to its plant.

FRIEND, NEB.—Contracts for constructing an electric light plant have been awarded as follows: Pole line connection, to NORTHWESTERN ELECTRIC EQUIPMENT CO., 135 East Fifth St., St. Paul, Minn., for $6,629; engine and boiler, SUNDERLAND ROOFING & SUPPLY CO., Omaha, $4,557; and generator, series are equipment and transformers to WESTERN ELECTRIC CO., 611 Wyandotte St., Kansas City, Mo., $3,165. A. H. Frantz is City Clk.

ST. JOSEPH, MO.—W. E. Spratt, Mayor, has recommended a new boiler for the municipal electric light plant and additional lights, erection of a city hall and further extensions of sewers.

FOREMAN, ARK.—D. L. Winters and associates have secured a franchise to furnish the town with natural gas.

ABERDEEN, WASH.—Preparations are being made for construction of the new power plant at the Gray's Harbor Railway & Light Co. The plant will furnish electricity for lighting and power in this city and Hoquiam. The cost is estimated at $250,000. Jay D. Crary, Aberdeen, is Gen. Mgr.

SULTAN, WASH.—Eastern capitalists represented by M. Kirkpatrick, Everett, Wash., will erect a large power plant near Sultan. The dam will be 80 ft. thick at the base and 30 ft. on top; three separate power houses are to handle the released waters. The company will build a 17-mile railroad to handle its construction material.

STOCKTON, CAL.—The American River Electric Co. is making preparations to construct an auxiliary electric plant which will be located on the north bank of the Stockton Channel and cost about $250,000. The main building will be of reinforced concrete and steel, and high-pressure machinery will be placed in position to supply current when the plant on the American River is disabled. B. C. Condit, 320 East Weber Ave., Stockton, is Supt.

SAN FRANCISCO, Cal.—Bids will be received about May 15 for rebuilding the power house of the San Francisco Gas & Electric Co., recently destroyed by fire. F. H. Varney is Engr.

SANTA CRUZ, CAL.—The Coast Counties Light & Power Co. is planning to establish a large central power plant on Big Creek, with a sub-station or distributing plant at Santa Cruz and a smaller auxiliary plant at Watsonville to be used in emergency. The capacity of the hydro-electric plant at Big Creek will be doubled, for which plans have been drawn. The auxiliary plant now in use at the Casino in Santa Cruz will be brought to Watsonville. R. H. Sterling is Gen. Mgr. of the Coast Counties Light & Power Co.

PROVO, UTAH.—The Secretary of the Interior at Washington, D. C., has awarded contract to the GENERAL ELECTRIC CO., of Schenectady, N. Y., for furnishing electrical machinery for the power plant, Strawberry Valley irrigation project, Provo, Utah., at $26,119.

TORONTO, ONT.—The Hydro-Electric Power Commission has received application for 29,650 HP. from eight municipalities as follows: Toronto, 15,000 HP.; London, 6,000 HP.; Brantford, 2,500 HP.; Guelph, 2,000 HP.; Galt, 1,200 HP.; Woodstock, 1,200 HP.; Berlin, 1,000 HP., and St. Marys, 750 HP. In connection with the distribution of this power a plant will be erected at Toronto at a cost of $1,500,000 and smaller plants will be erected at other towns. Hon. Adam Beck is Chn.; P. W. Lothmann is Ch. Engr., both of Toronto.

STREETSVILLE, ONT.—JESSE STRINGER, of Carrville, has been awarded contract for the concrete work on the dam and power-house which is about to be constructed at Streetsville, at a cost of $20,000. John S. Fielding, 15 Toronto St., Toronto, is Engr.

COBALT, ONT.—H. D. SYMMES, of Niagara Falls, has contract for installing an electric power plant at Cobalt, to cost about $500,000. The plant will supply the power to operate the mines of the district and work will be begun at once.

NEW WESTMINSTER, B. C.—The British Columbia Electric Ry. Co. is planning to make extensive additions to its property in New Westminister, and over $100,000 will be spent on new buildings. D. J. McQuarrie, New Westminster, is Local Mgr.

BRIDGES.

CLAREMONT, N. H.—A steel bridge will be constructed. Cost, $37,000.

WOONSOCKET, R. I.—We are officially advised that contract for building Arnold St. bridge has been awarded to the AUSTIN ENGINEERING & CONSTRUCTION CO., Boston, Mass. Frank H. Mills is City Engr.

CANANDAIGUA, N. Y.—The date for receiving bids for constructing concrete arch, 120 ft. long, with 10-ft. span, filling over same, and removing old bridge has been extended from May 20 to May 27. (Advertised, Engineering News.)

MORGANTOWN, W. VA.—The county will vote June 1 on issuing bonds amounting to $75,000 for constructing bridge across Monongahela River.

NEW ORLEANS, LA.—We are officially advised that the following bids were received April 29 by Charles R. Kennedy, Compt., for constructing viaduct over the tracks of the Southern Pacific R. R. Co., on the line of Newton St., in Algiers: Ottumwa Bridge Co., Ottumwa, Iowa, $99,000; Penn Bridge Co., Beaver Falls, Pa., $112,000, and Baltimore Bridge Co., Bush St. and B. & O. R. R., Baltimore, Md., $117,777. W. J. Hardee is City Engr.

PEARL CITY (Cyruston post-office), TENN.—The VINCENNES BRIDGE CO., Vincennes, Ind., has been awarded contract for erecting steel bridge, 14 ft. wide, with concrete piers and abutments, across Elk River, at $6,500. Bridge to be completed Sept. 1.

JONESBORO, TENN.—The County Court, Charles L. Mason, Clk., has let contract for constructing 330-ft. steel bridge with steel piers or tubes filled with concrete, and having two spans, one 200 ft. and other 130 ft., across Nola Chucky River, at Deaderiah's Ford, to the CONVERSE BRIDGE CO., Chattanooga, Tenn., at $10,977.

JACKSON, TENN.—The contract for erection of steel bridge across Forked Deer River has been let to the NASHVILLE BRIDGE CO., of Nashville, Tenn., for $3,710.

AKRON, OHIO.—Bids are asked by the County Commissioners until 11 a. m., May 13, for constructing bridge.

LOGAN, OHIO.—Bids are asked by the County Commissioners until 1 p. m., May 25, for constructing 2-span concrete steel arch bridge, with 16-ft. roadway. J. L. Martin is County Audr.

CINCINNATI, OHIO.—The following are the bids opened April 22 by the Board of Public Service, for superstructure of viaduct over right of way from Barnard St. and Harrison Ave. to State Ave.: Interstate Eng. Co., $321,893; Strobell Concrete Co., $324,600; Winkoop & McGormley, $342,600; Granger & Co., $252,800; Wm. Marshall Constr. Co., $279,000; Capitol Constr. Co., $279,900; Cowing Eng. Co., $280,500; King Bridge Co., $299,800; Union Iron Wks., $305,000. Charles N. Dannenhower is Ch. Engr., Bd. Pub. Service.

YOUNGSTOWN, OHIO.—Bids are asked until May 13 by the Board of Public Service, G. T. Prosser, Clk., for furnishing material and constructing two bridges in East End Park. F. M. Lillie is City Engr.

SHELBYVILLE, IND.—Bids are asked by the County Commissioners until May 18 for constructing bridge. Thomas Hawkins is County Audr.

ROYAL OAK, MICH.—Three steel bridges will be constructed in this township.

HAVANA, ILL.—BURNHAM & IVES, of Bloomington, have been awarded the contract for removing and rebuilding bridge across Sangamon River, between Mason and Menard Counties, for $3,750.

MITCHELL, NEB.—Bids are asked by the U. S. Reclamation Service until 2 p. m., June 26, for constructing wooden and steel highway bridges and concrete structures, involving about 11,000 cu. yds. of concrete, near Mitchell, and for furnishing about 450,000 lbs. of structural and reinforcing steel and about 66,000 lbs. c.-i. headgates and operating devices, in connection with the North Platte Project. (Advertised, Engineering News.)

BEATRICE, NEB.—The Board of County Supervisors have let contract to the A. E. SHORTHILL CO., of Marshalltown, Iowa, for constructing bridges during the present year. One other bid was submitted by the Gilligan Bridge Co., of Falls City, Neb.

KANSAS CITY, MO.—The Council has granted permission to the Kansas City, St. Joseph & Excelsior Springs Ry. Co. to construct a railway, wagon and foot bridge across Missouri River. The company will operate interurban cars between Kansas City, St. Joseph and Excelsior Springs, rights-of-way having been obtained. Work will be commenced at once and the rails and roadways will be heavy enough to carry steam rolling stock.

KANSAS CITY, MO.—Bids are asked until May 13 by the Board of Park Commissioners, Frank P. Gossard, Secy., for furnishing material and constructing suspension bridge across Blue River in Swope Park.

PINE BLUFF, ARK.—The Pine Bluff North & South Railroad Co. has let the contract for building free railroad, wagon and foot bridge across Arkansas River at this place, and for construction of the North & South Railroad from this city to Shreveport, La. The contract was let to the THOMAS A. BELL CONSTRUCTION CO., and work on the bridge and railroad will begin at once. The North & South R. R. Co. was incorporated one year ago with a capital of $800,000. It is stated that the capital will be increased to $1,000,000. The executive committee is composed of Dr. Z. Orto, Pres.; P. P. Byrd, First Vice-Pres.; J. L. Caldwell, Secy.; S. C. Alexander, Jr., and John F. Rutherford.

FT. WORTH, TEX.—Bids are asked by C. J. McKenna, County Audr., until May 14 for constructing 92-ft. reinforced concrete bridge across Sycamore Creek, in Glenwood, Tarrant County.

PURCELL, IND. T.—Bids are asked until May 20 for constructing bridge about 3,100 ft. long across Canadian River with 1,100-ft. pile trestle approach on Oklahoma side.

SEATTLE, WASH.—The contract for the superstructure for the Columbia River bridge of the Pacific coast extension of the Chicago, Milwaukee & St. Paul Ry. Co. has been let to the PENNSYLVANIA STEEL CO., Girard Trust Bldg., Philadelphia, Pa. It was for 15 spans, weighing 4,000 tons. Work is under way on the substructure, and it is the present expectation to have it ready for the steel work by the first of next year. The superstructure will be erected by company forces, and the bridge will probably be ready for service within a year from the present time. The McCLINTIC-MARSHALL CONSTRUCTION CO., Park Bldg., Pittsburg, Pa., has been awarded contract for six truss spans for the section between Tacoma and Seattle. These bridges are expected to be ready by fall. The three crossings of the Yellowstone River, respectively at Terry, and each side of Miles City, Mont., twelve spans in all, each 270 ft. long, aggregating 6,700 tons, has been let to the AMERICAN BRIDGE CO., 42 Broadway, New York. They are being built entirely by company forces, the substructures now being under way, and will be completed about the first of the year. The contract for the superstructure of the Missouri River bridge, near the east end of the line, at Mobridge, S. Dak., has been awarded to the PENNSYLVANIA STEEL CO. There are three 425-ft. spans, weighing 4,000 tons. Contracts for girder spans of various lengths, approximating 1,500 tons each, have been let to the WISCONSIN BRIDGE & IRON CO. and the MILWAUKEE BRIDGE & IRON CO., both of Milwaukee, Wis. Twelve of these are for Musselshell River crossings, three for Jefferson River, five for Little Missouri River and the remainder for various streams in Montana and North Dakota. D. J. Whittemore, at Chicago, Ill., is Ch. Engr., Bridges and Roadway.

LOS ANGELES, CAL.—Plans have been prepared for constructing combination highway and street railway viaduct to replace Buena Vista St. bridge. The viaduct will be constructed of reinforced concrete, about 70 ft. wide, with one 351-ft. and one 145-ft. span, three 80-ft. arches, one 75-ft. arch and 500 ft. of trestle approach. H. G. Parker is City Engr.

PORTLAND, ORE.—Bids are asked at the office of U. S. Engineers, Portland, Ore., until 11 a. m., June 5, for lumber and pile trestle and rock work. S. W. Roessler is Lieut.-Col., Engrs. (Advertised, Engineering News.)

REDLANDS, CAL.—The Union Iron Works Co., of San Francisco, is reported to have secured contract for constructing 240-ft. bridge over Santa Ana River, between Redlands and Highland, for $8,654.

HANOVER, ONT.—Bids are asked by Duncan Campbell, Clk., until noon, May 22, for erection of one 100-ft. span steel bridge over Saugeen River, Concession 4, Bentinck. Bids also are asked per cu. yd. for concrete work for abutments.

CORNWALL, ONT.—The Township Council has instructed the Township Engineer to prepare plans for constructing steel bridge across River Aux Raisio.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

MERIDEN, CONN.—Bids are asked until 3 p. m., June 13, by James Knox Taylor, Supervy. Arch., Washington, for building U. S. post-office at Meriden. (Advertised, Engineering News.)

ALBANY, N. Y.—The following bids were received on April 29th by the Trustees of Public Buildings, Albany, for clearing the site for the new $4,000,000 Educational Building: Robert Shaffer, Albany, $12,250, 75 days; Collins & Vadney, Albany, $15,000, 90 days; M. F. Dollard, Albany, $5 per building, 77 days; Daniel S. Flinn, Albany, $10,000, 75 days; M. Kantrowitz, 78 State St., Albany, $8,676, 90 days; Mulderry Bros., Albany, $3,300, 95 days; Utica Wrecking Company, Utica, $10,800, 90 days; Edward A. Weeber, 296 Central Ave., Albany, 1st bid, $18,750, 77 days; 2d bid, $15,750, 104 days; 3d bid, $13,750, 140 days; James A. Malcolm, Albany, $7,800, 75 days. As there are 100 buildings to be removed, the bid of M. F. Dollard, $500, is lowest. Robert H. Fuller, Capitol, is Secy. of the Board.

NEW PALTZ, N. Y.—The contract for erecting the State Normal School here has been awarded to MORRIS KANTROWITZ, 78 State St., Albany, at $160,800. The contract calls for a fireproof structure, including gas and electric fixtures.

NEW YORK, N. Y.—Bids are asked until 11 a. m., May 20, by C. B. J. Snyder, Supt. School Bldgs., for general construction, etc., of new Public School No. 159, on Pitkin Ave., between Crescent and Hemlock Sts., Boro. of Brooklyn; for alterations, repairs, etc., for Public Schools Nos. 2, 7, 22, 34, 36, 62, 92, 110, 120, 126, 137, 144, 147, 177, 188, Boro. of Manhattan; for general construction, etc., of new Public School No. 114, on James, Oak and Oliver Sts., Boro. of Manhattan; for general construction, etc., of addition to and alterations in Public School No. 19, on east side of Greenleaf Ave., between Post Ave. and Floyd St., West New Brighton, Boro. of Richmond.

NEW YORK, N. Y.—The following bids were received May 6 by C. B. J. Snyder, Supt. School Bldgs., for installing heating and ventilating apparatus in new public school No. 114, on east side of Remsen Ave., between Bay View Ave. and School Lane, Canarsie, Boro. of Brooklyn: William J. Olvaney, 177 Christopher St., $33,444; Blake & Williams, 211 West 20th St. $29,286; Baker Smith Co., 83 West Houston St., $29,712; E. H. Sutter Co., $30,950; Frank Dobson, 319 East 53d St., $28,105; R. J. Soverign Co., 63 Fifth Ave., $31,640; E. Rutzler & Co., 127 White St., $30,608.

The following bids were received at the same time as those above for installing heating and ventilating apparatus in new public school No. 27, on 41st and 42d Sts., about 105 ft. east of Third Ave., Boro. of Manhattan: E. Rutzler & Co., 127 White St., $54,127; Frank Dobson, 319 East 53d St., $52,349; William J. Olvaney, 177 Christopher St., $62,749; Blake & Williams, 211 West 20th St., $53,670; Baker, Smith & Co., 83 West Houston St., $54,950; Gillis & Geoghegan, 537 West Broadway, $56,950.

NEW YORK, N. Y.—Hale & Rogers, 11 East 24th St., will file plans with the Building Department soon for the E. S. Harkness dwelling, to be erected this year at the corner of Fifth Ave. and 75th St. The plans disclose a 5-story structure to follow the lines of Italian renaissance architecture, with a facade of limestone. The entrance hall will lead to a reception room and dining room. The second floor will contain a library and music room, and the third the family chambers. The fourth and fifth floors will also contain chambers for guests and servants respectively. A passenger and service elevator will be installed. The cost of the dwelling is placed by the architects at $500,000, exclusive of the furnishings.

The following bids were opened May 1 by Robert W. Hebberd, Comr. Public Charities, for erecting Coney Island Hospital, Boro. of Brooklyn: H. M. Weed & Co., 124 West 45th St., New York, $357,000; George T. Driscoll, 391 Fulton St., Brooklyn, $349,000; Thomas G. Carlin, Inc., 215 Montague St., Brooklyn, $357,496; Clarke & Stowe, 221 Greenpoint Ave., Brooklyn, $343,000; D. J. Ryan, 723 Third Ave., New York, $330,000; T. T. Nesbitt Co., 116 Nassau St., New York, $357,265; Kelly & Kelley, 45 East 42d St., New York, $365,242, and R. E. Heningham, 1 Madison Ave., New York, $361,850.

NEW YORK, N. Y.—The following bids were opened on April 29 by C. B. J. Snyder, Supt. School Bldgs., for general construction, etc., of additions to and alterations in School No. 3, Boro. of the Bronx: Thomas McKeown, 521 West 110th St., $157,437; JAMES F. KERR, $151,435 (awarded contract); William Werner, 892½ Forest Ave., $165,800; P. Gallagher, 1181 Broadway, $172,000; Alfred Nugent's Son, $158,700; Peter J. Ryan, 314 West 44th St., $155,744; Geo. Hildebrand, $150,439; Thomas Cockerill & Son, $168,700, and Guidone & Galardi, $162,000.

Bids are asked until May 15 by John F. Ahearn, Pres. Boro. of Manhattan, for the erection and completion (except plumbing and gas-fitting) of a public bath building at Nos. 342, 346 and 348 East 54th St., Boro. of Manhattan. The following are the bids opened on April 25 by John F. Ahearn for the above work: D. J. Ryan, 723 Third Ave., $238,710; L. Wechsler, 1135 Broadway, $242,506; Thomas B. Leahy Building Co., 1 East 42d St., $240,000; T. T. Nesbitt Co., 116 Nassau St., $221,000; A. Nugent Sons, 103 East 125th St., $224,500; C. H. Peckworth, 415 Hudson St., $231,595; Thomas J. Waters, 103 East 125th St., $220,900, and Luke A. Burke & Sons, $221,285.

Horace Trumbauer, Arch., Land Title Bldg., Philadelphia, has awarded to D. C. WEEKS & SON, 289 Fourth Ave., New York, the contract to erect for George Gould a residence at 67th St. and Fifth Ave. The cost will be about $500,000. The lot upon which the house will be built measures 55 × 125 ft.

NEW YORK, N. Y.—Rouse & Sloan, Archs., 11 East 43d St., have prepared plans for an annex to the apartment building "Hendrik Hudson," at corner of Riverside Drive, 111th St. and Broadway, for the Hendrik Hudson Co., Geo. F. Johnson, Sr., Pres. The building will be twelve stories high, 175 × 90 ft. Roman light brick, Flemish bond, limestone and terra cotta, Italian villa style, with steel skeleton, fireproof construction, iron stairs, marble treads, electric wiring, etc. Cost, $500,000.

TRENTON, N. J.—Bids were opened May 6, at the office of the Supervising Architect of the Treasury, Washington, D. C., for the construction of an extension to the post-office building at Trenton. Bids were: James W. Lammy, Trenton, N. J., $170,000; Wm. R. Mathews, Princeton, N. J., $154,390; Charles McCaul Co., Philadelphia, $144,581; William Johnston, Trenton, N. J., $132,900; Flisell & Wagner, 1133 Broadway, New York, $142,500.

PHILADELPHIA, PA.—J. Horace Cook, Supt. of School Bldgs., will advertise for proposals at once for two new elementary schoolhouses, each of 24 divisions. These schools will be erected respectively at Twelfth and Fitzwater Sts., where the new building will replace the Fagan School, which was destroyed by fire last winter, and at Emerald and Orleans Sts. The structures will be built on duplicate plans, which provide for 3-story buildings of red brick relieved with white brick and stone, and in each case the cost will be about $190,000.

Plans and specifications are being prepared also for the erection of four more elementary schoolhouses as follows: Chandler, Montgomery Ave. above Richmond St., to replace the present dilapidated structure, and the Feltonville, 42d Ward, each of twelve divisions; Bayard Taylor, of 18 divisions, to replace present old structure; Randolph St. above Venango, and the Nichols, of 18 divisions, also to replace old building, 16th and Wharton Sts.

The Horn & Hardart Baking Co., 818 Chestnut St., has purchased the properties at 202 to 210 South Tenth St., and rear, and upon the combined lot, measuring 78 × 188 ft., will be erected a 4-story reinforced concrete and brick restaurant and bakery building, as soon as plans are complete. The cost will be $125,000. In addition to a restaurant on the first floor, 40 × 60 ft., the roof will be finished as a garden and restaurant.

WASHINGTON, D. C.—The following architects have been invited to submit plans before June 15 for the proposed building to be built for the Bureau of American Republics, at Washington: Carrere & Hastings, 28 East 21st St., New York; Eames & Young, Chestnut and Seventh Sts., St. Louis; Cass Gilbert, 79 Wall St., New York; Hornblower & Marshall, 1516 H St., N. W., Washington; Thomas R. Kimball, Omaha; Peabody & Stearns, Exchange Bldg., Boston; Whitfield & King, 160 Fifth Ave., New York, and Wood, Donn & Deming, Washington.

PAINESVILLE, OHIO.—Bids are asked until May 15, by the Board of Commissioners, of Lake County, for constructing a stone court-house and jail at Painesville, to cost about $300,000. F. H. Murray is Pres.; E. D. Hartwell is Secy. County Comrs. J. Milton Dyer, 825 Cuyahoga Bldg., Cleveland, is Arch.

CINCINNATI, OHIO.—Harry Hake, Arch., Andrews Bldg., is preparing plans for a brick, stone and terra-cotta building, 15 stories high, to be erected at Seventh and Vine Sts., for the Provident Savings & Trust Co., Chamber of Commerce Bldg., Cincinnati. Estimated cost, $500,000.

DETROIT, MICH.—The Board of Education on April 25 approved the following contracts for erecting the Central High School annex: F. H. GODDARD, 1308 Penobscot Bldg., masonry, iron and steel, $136,997; JOHN WHITAKER & CO., 51 Church St., carpenter work, $25,750; BATCHELDER & WASMUND, cut stone, $7,730; MICHAEL FINN, plaster, $11,990; ROBERT HUTTON & CO., roofing and sheet metal, $11,741; CARL KILWINSKI, painting and glazing, $5,850; JACOB ZERGA, 78 Larned St. West, plumbing, $6,093. Cost, $210,000.

CHICAGO, ILL.—A hotel and theater building, to cost nearly $5,000,000 (including the site on which it will stand), will be erected inside the elevated loop district of Chicago. The theater, to be known as the Chicago, will be owned by the United States Amusement Co., and the hotel will be the property of the same parties, who will incorporate for this purpose under another name.

NORTH CHICAGO, ILL.—Bids were received May 1, at the Bureau of Navigation, Navy Dept., Washington, D. C., for construction of 24 buildings and six officers' quarters at the Naval Training Station, Great Lakes, North Chicago, Ill. Bids are on the following items: (a) Administration building; (b) instruction building; (c) one drill hall; (d) four dormitories; (e) one mess hall and galley; (f) general storehouse; (g) boat-house; (h) brig; (i) stable; (j) main guard-house; (k) receiving guardhouse; (l) receiving building; (m) six receiving dormitories; (n) receiving galley and laundry; (o) power-house; (p) commandant's house; (r) officers' quarters, price for two; (s) officers' quarters, price for six; (t) officers' quarters, price for eight; (u) extension of water supply mains; "total," price of first 24 buildings:

Northern Construction Co., Milwaukee, Wis., (a) $243,086; (b) $417,781; (c) $232,280; (d) $631,244; (e) $143,085; (f) $83,225; (g) $62,982; (h) $27,562; (i) $26,667; (j) $18,392; (k) $10,588; (l) $42,756; (m) $239,238; (n) $30,269; (o) $133,167; (p) $48,686; (r) $37,000; (s) $99,900. If total award over $2,000,000, deduct 5%.

J. W. Snyder, 160 Washington St., Chicago, (a) $245,189; (b) $423,473; (c) $257,708; (d) $612,413; (e) $150,993; (f) $85,766; (g) $70,653; (h) $27,429; (i) $31,996; (j) $18,426; (k) $6,988; (l) $45,083; (m) $261,617; (n) $30,943; (o) $135,228; (p) $76,132; total, $2,463,267.

Noel Construction Co., German and Calvert Sts., Baltimore, Md., (a) $197,146; (b) $384,122; (c) $202,682; (d) $538,776; (e) $128,735; (f) $82,123; (g) $59,190; (h) $25,684; (i) $23,744; (j) $17,786; (k) $6,784; (l) $43,184; (m) $232,341; (n) $28,102; (o) $116,663; (p) $51,014; total, $2,137,986; (t) $153,000. Deduction of $12,000 if awarded other buildings.

Geo. B. Swift Co., 188 Madison St., Chicago, (a) $211,277; (b) $407,565; (c) $244,467; (d) $592,107; (e) $139,917; (f) $77,598; (g) $68,173; (h) $23,116; (i) $26,283; (j) $17,961; (k) $7,403; (l) $44,773; (m) $254,989; (n) $28,585; (o) $130,317; (p) $33,863; total, $2,305,724; (r) $34,458; (s) $102,300.

MacArthur Bros. Co., 277 Dearborn St., Chicago, total, $2,299,905; (s) $109,011.

James E. Hale, Chicago, (r) $33,440; (s) $100,320.

C. A. Keyes Domestic Engineering Co., St. Paul, Minn., (u) $8,947.

Harry C. Patterson, Wahpeton, Wis., (u) $6,300.

P. H. Iglehart, Morgan Park, Ill., (u) $6,650.

WICHITA, KAN.—Bids are asked until 3 p. m., June 6, by James Knox Taylor, Superv. Arch., Washington, D. C., for constructing an extension to the U. S. post-office and custom-house, Wichita. (Advertised, Engineering News.)

ST. LOUIS, MO.—Gilbert C. Goodlet, 1005 Chestnut St., will erect apartment-house from plans prepared by E. Ross Chamblin, 1014 Holland Bldg. At present the south wing only will be erected, this consisting of 18 apartments and basement, with boiler rooms and laundry underneath same. Total cost of completed building is estimated at $165,000. Complete building will have 40 apartments, or 222 rooms, three stories and basement, vacuum steam heating system, electric lighting.

HOUSTON, TEX.—Harris County has voted affirmatively the issuance of $500,000 of bonds for erection of court-house. A. E. Amerman is County Judge.

The contract to construct a Y. M. C. A. building in Houston has been awarded to YOUNG & McCOY, of Houston. The work is to be completed Jan. 1, 1908. Cost, $150,000. Sauguinet & Staats, Houston, Archs. W. A. Scott is Gen. Secy. Y. M. C. A.

ABERDEEN, WASH.—Finch & McCaw will erect a 4-sty business building on H. and Heron Sts., to cost about $150,000.

SAN FRANCISCO, CAL.—The estate of Mary A. Gaffney will erect soon a hotel on the corner of Sutter and Taylor Sts. The rooms and baths will be so arranged that suite combinations are easily made possible. The first floor and basement are given up entirely to hotel purposes. On the first floor will be located the dining-room, the private dining-rooms, ballroom, parlors, tea garden, etc. Passenger and freight elevators, together with a dumb waiter, which supplies a serving room on each floor, will be installed. The exterior will be of Harvard brick, laid with white mortar joints, and with marble trimmings, after the brick Colonial style of architecture. The interior will likewise be Colonial in style. The building will cost $350,000. Oliver & Foulkes, 899 Franklin St., are Archs.

SAN FRANCISCO, CAL.—The Lent Estate Co. will build a $250,000 4-story Class A structure at the corner of Post St. and Grant Ave., and has applied for a building permit.

A hotel is to be erected on the corner of Sixth and Howard Sts. by S. Shiedeman. The first floor will contain four stores and a hotel reading room, while the upper floors will be divided into 264 rooms, besides private and public bathrooms, five on each floor. Two electric elevators will be part of the equipment. The material will be pressed brick and terra cotta. The cost of the new hotel will be about $130,000, and it is proposed to complete it before Jan. 1, 1908. Meyer & O'Brien, 779 Market St., are Archs.

The C. A. Schmitt Estate has applied for a permit to erect an 8-story Class A office building, to be located on Bush St., between Kearny St. and Clara Lane, and to cost $175,000.

E. I. Delger will erect a 4-story Class A $150,000 building at the southwest corner of Market and Sixth Sts. H. Barth, 2500 Fillmore St., is Arch.

A building will be erected on the block bounded by Beach, Jefferson, Hyde and Leavenworth Sts. It will be a 4-story brick building for the California Fruit Canners' Association to cost $200,000.

BERKELEY, CAL.—Bids are asked until May 30 by the Board of Education for erecting a Polytechnic High School, to cost $160,000. Stone & Smith, 789 Market St., San Francisco, are Archs.

SALT LAKE CITY, UTAH.—The Salt Lake Security Trust Co. has decided to increase the cost of the new apartment house, which it will erect on Second East St., between Second and Third South Sts.; from $125,000 to $150,000.

MONTREAL, QUE.—The authorities have decided that the Medical Building of McGill University will be rebuilt, at a cost of about $750,000, immediately. W. Peterson is Principal.

Ross & Macfarlane, Archs., Bank of Ottawa Bldg., Montreal, have prepared plans for the new school building to be erected on Westmount av. The building will be 165x65 ft., two stories and basement, constructed of pressed brick with stone trimmings, and is estimated to cost $125,000.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

SWANTON, VT.—Bids are asked by C. E. Allen, Village Pres., until 1 p. m., May 22, for furnishing 51,500 ft. 10 and 12-in. wooden stave water pipe, gates, valves, etc. Bids are asked at the same time for hauling, trenching and laying pipe, etc., and constructing 1,000,000-gallon reservoir. John L. Collins, 444 Broadway, Albany, N. Y., is Engr. (Advertised, Engineering News.)

SPRINGFIELD, MASS.—The Water Commissioners have let contract for furnishing 50 or more hydrants and valves necessary for reconstructing the distributing system to the RENSSELAER MFG. Co., of Rensselaer, N. Y., at about $5,000. E. E. Loch-Pres.; Elmer G. Prior is Clerk.

HOOSICK FALLS, N. Y.—Bids are being received by the Village for laying about 2¼ miles of 4, 6, 8, 10 and 12-in. pipe, specials, gates, hydrants, etc. Henry P. Jones is Engr.

ATLANTIC CITY, N. J.—Bids are asked by the Board of Water Commissioners until 2.30 p. m., June 4, for furnishing and installing 12,000,000-gallon pumping engine at Absecon Pumping Station. L. Van Gilder is Engr. and Supt. (Advertised, Engineering News.)

McKEESPORT, PA.—We are officially advised that contracts for constructing water softening and filtration plant have been awarded as follows: HOHMAN & CARDMEL, McKeesport, laying 150 ft. 8-in., 1,260 ft. 20-in., 726 ft. 24-in., and 545 ft. 30-in. pipe, at $4,829; BOWMAN BROS CO., McKeesport, Pa., filtration plant, water softening plant, chemical storage building, 400-HP. boiler, two 7,000,000-gallon pumps and elevator, $151,119. L. H. Verner is Supt. Water and Light Comrs.; Alexander Potter, 143 Liberty St., New York, is Consult. Engr.

SPARTANBURG, S. C.—The city has completed purchase of water plant from Home Water Supply Co., John B. Cleveland, Pres., and will expend $75,000 in improvements, to consist of installation of additional pumping engine, laying new and larger mains and 20-in. pipe from pumping station to standpipe, etc. The purchase price is said to be $200,000. J. F. Fled is Mayor. Floyd L. Liles is Chn. Water Com.

WINNSBORO, S. C.—The city is considering installing water works and sewerage system and will soon advertise for engineer to make surveys.

HAMILTON, OHIO.—The Board of Public Service has awarded contract for furnishing one 6,000,000-gallon pumping engine to HOOVEN, OWENS & RENTSCHLER, of this city, at $25,500. The Laidlaw-Dunn-Gordon Co., Cincinnati, Ohio, submitted a lower bid, but could not make early delivery. J. W. Hill, Cincinnati, Ohio, is Engr.

CINCINNATI, OHIO.—Bids are asked until noon, May 31, by Commissioners of Water-Works, Cincinnati, for laying c.-i. pipe and special castings and valves on Liberty St., from Faulkner St. to Millcreek, and from Millcreek to State Ave. A. Herrmann is Pres.; Elmer G. Prior isClerk.

PERU, IND.—The city is in the market for pumps. Capacity, 5,000,000 gallons.

BLOOMINGTON, IND.—Bids are asked by the trustees of Indiana University for boilers and stokers, engine and generators, and electric light fixtures.

GLENELLYN, ILL.—Bids are asked until May 10 by E. H. McChesney, Village Pres., for the complete construction of a system of c.-i. water mains to consist of 3,480 ft. 8-in., 10,636 ft. 6-in., 40,951 ft. 4-in., 26,500 lbs. special castings, with valves and hydrants. George Cadogan Morgan is Engr., 808 Royal Insurance Bldg., Chicago.

BELLE FOURCHE, S. DAK.—Specifications and bidding sheet for construction South Canal, Sections 2-6, and structures, Sections 2-8, in connection with the Belle Fourche Project, S. Dak., are on file at office of Engineering News, New York. Bids are asked until May 28. (Advertised, Engineering News.)

SAVANNAH, MO.—The city has voted to issue bonds amounting to $[illegible] for installing water works system.

AMARILLO, TEX.—The [illegible] County Water Supply Co., capital $[illegible], has been chartered here. Incorporators: John K. Bryden, L. W. Chase, J. H. Chase and George W. Darr.

DENVER, COLO.—We are officially advised that "the Western Investment & Land Co. has engineers in the field surveying and locating the proposed reservoir and irrigation canals. Wild Cat not determined as yet on the line. We have not determined as yet on the cross-section of same, but it will have to be 3,000 cu. ft. per second and will be confined from one end to the other. We will have to drive two tunnels; one will be 1¼ miles long and the other 2½ miles long. The 20 miles of our line goes through an already irrigated country, but all ditches are ready for the country are practically controlled by the Western Investment & Land Co., our ditch will supersede these other ditches and will take their place. The balance of our line, which is about 100 miles, is through an absolutely arid country with an occasional house scattered here and there, and will be a very fertile country when water is placed thereon. The commencement of the construction on the ditch has not been definitely decided upon, but will be started some time this summer. Our reservoir, when completed, will cover an area of [illegible] sq. miles. We will dam the South Platte River and the dam will be 80 ft. high above the present bed of the river, and we will have to go about 60 ft. to bed rock. The dam will be located five miles west of the town of Gilcrest, which is on the Union Pacific R. R. and will cost approximately $2,500,000, while a rough estimate of the cost of our ditch, which is inaccurate, is $4,000,000." Frank J. Macarthy is Pres. and R. O. Sturgeon is Ch. Engr., Symes Bldg., Denver.

PORTLAND, ORE.—Specifications and bidding sheet for constructing dam at outlet of Bumping Lake, Wash., in connection with the Yakima Project, Wash., are on file at office of Engineering News, New York. Bids are asked until July 1.

PRICE, UTAH.—The Utah Irrigation Co., P. H. Fitzgerald, Pres., of Salt Lake City, has awarded contract to WALLACE & COATES, of New York, Chicago and Portland, for constructing irrigation canal to water 25,000 acres of land surrounding Price. The canal will be 24 miles long, 20 ft. wide at top, 16 ft. at bottom and 4½ ft. deep and supplied with water from Price River and Mammoth reservoir, recently completed. The estimated cost, including 100-ft. dam at Mammoth reservoir, is $300,000. Frank R. Coates will have active charge of construction and the work will be completed in about four months.

SIMCOE, ONT.—The Town Water Works Committee has awarded contracts as follows: Construction of water tower: The HUNTER BRIDGE CO., Kincardine, Ont., at $7,400; foundation for same, the same firm at $1,250; supply of pipe, L. COATES & CO., Ottawa, at $36 per ton; supply of valves, hydrants, etc., KERR ENGINE CO., Walkerville.

AMHERSTBURG, ONT.—Bids are asked by J. H. C. Leggatt, Town Clk., until noon, May 13, for furnishing and installing pump. The pump may be either (A) compound, direct acting pumps, (B) fly-wheel pumps or (C) turbine pump.

BRANDON, MAN.—Bids are asked until May 15 (change of date) by G. R. Caldwell, Chn. Water-Works Comn., for supplying 85 tons 6 and 8-in. c.-i. pipe and specials. W. H. Shillinglaw is City Engr.

REGINA, SASK.—Bids are asked by J. Kelso Hunter, City Clk., until 5 p. m., May 14, for furnishing material and constructing the following: (A) two compensating basins, 1,000,000 and 500,000 gallon capacity respectively; (B) laying 36,500 ft. c.-i. pipe and 54,000 ft. sewer pipe. The material required is as follows: One 1,500 gallon pump; 1,500 ft. 19, 3,000 ft. 8, 32,000 ft. 6-in c.-i. pipe, 2,600 ft. 8, 32,000 ft. 12, 9,400 ft. 15, 4,700 ft. 18, 6,200 ft. 20, and 40,000 ft. 6-in. sewer pipe; 600 corporation cocks; 600 curb cocks; 600 service boxes; 50 tons lead service pipe; 17 tons pig lead; 50 gate valves; 50 hydrants. Angus Smith is City Engr.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

TOGUS, ME.—The Eastern Branch National Home for Disabled Volunteer Soldiers may be provided with sewage disposal system this year. Septic tank system proposed. E. E. Lewis is Ch. Engr.

NASHUA, N. H.—The Board of Public Works has awarded contract for furnishing sewer pipe during the present year to BUXTON & ALLARD, at 71 per cent. of manufacturers' list price. Bids were also received as follows: Osman B. Tilton, 70½ per cent.; Arthur E. Gay, 70 per cent., and C. B. Jackman & Son, 70¼ per cent. E. J. Johnson is City Engr.

LOWELL, MASS.—EDWARD CAWLEY has secured contract for furnishing 500 6-in., 300 8-in., 500 10-in. and 2,000 12-in. 3-ft. Portland stone ware sewer pipe, at 70 per cent. of list price. The contracts for supplying about 50,000 sewer bricks, at $10.50 per M., and furnishing 600 bbls. cement, have been secured by E. A. WILSON & CO. George Bowers is City Engr.

NEW CANAAN, CONN.—EDWARD B. ROBERTS, Old South Bldg., Boston, Mass., has secured contract for constructing Sec. 2 of the piping system of New Canaan sewers at the following itemized bid: 3,094 ft. 12-in. pipe sewer, $1.40; 1,806 ft. 10-in., $1.24; 5,300 ft. 8-in., 95 cts.; 1,000 ft. 6-in., 68 cts.; 1,705 cu. yds. rock excavation, $3.60; 1,360 cu. yds. manhole brick work, $13; 40 sets iron work, frames and covers, $12; 7

sets flush gates, seats, chains, each, $15; 70 cu. yds. concrete, $5.50; 100 cu. yds. excavation and refill, 60 cts.; 5 M. ft. sheeting, $15; 1 M. ft. timber cradle, $40; extra fill, per cu. yd., $1; catch basin, $60; total, $21,435. Bids were also received as follows: Edw. Tracy, New York, $22,708; Ch. Cooke & Co., Whitehall Bldg., New York, $22,818; A. M. Cusack, 95 Mill St., Boston, Mass, $24,434, and Fred. Stowers, Methuen, $25,564. E. Worthington, Meads Blk., New Canaan, is Engr.

ELIZABETH, N. J.—Bids are asked until May 15 by the City Council for constructing sewers in portions of Spring, Catherine and East Grand Sts., and Elizabeth Ave. The work includes 2,580 ft. 24-in., 360 ft. 20-in., and 900 ft. 15-in. pipe sewer, 15 manholes, etc. William H. Luster, Jr., is City Surv.

BALTIMORE, MD.—Plans, specifications and bidding sheets for constructing storm-water drains. Contracts Nos. 2 and 3, are on file at office of Engineering News, New York. Bids are asked by the Board of Awards until May 5. Calvin W. Hendrick is Ch. Engr., Sewerage Commission. (Advertised, Engineering News.)

Plans, specifications and bidding sheets for constructing outfall sewer, Sections 4, 5 and 6, and high level interceptor, Sections 1 and 2, are on file at office of Engineering News, New York. Bids are asked by the Board of Awards until May 15. (Advertised, Engineering News.)

VIENNA, GA.—See under Light and Power Plants.

EVANSVILLE, IND.—Bids are being received by the Board of Public Works for constructing five blocks of 10-in. vitrified pipe sewer. James D. Saunder is City Engr.

EDWARDSVILLE, IND.—Bids are asked by the Board of Local Improvements until May 16 for constructing 25,600 ft. 8 to 30-in. pipe sewers, including 40 manholes and 70 catch basins, in Sewer District No. 5. Charles A. Sheppard is City Engr.

ST. JOSEPH, MICH.—Specifications and bidding sheets for constructing trunk sewers are on file at office of Engineering News, New York. Bids are asked by the Board of Public Works until May 28.

EAST ST. LOUIS, ILL.—We are officially advised that J. & P. KEELEY have been awarded contracts for constructing sewers in Third St. and Veronica Ave., at $7,635. The contract for constructing Ninth St. sewer has been secured by W. H. HILL at $45,330. W. J. Crocken is City Engr.

TOMAH, WIS.—We are officially informed that the following bids were received April 26 for constructing about 5½-miles of sewers and appurtenances and septic tank: E. R. Harding, Racine, Wis., $27,929; A. C. Shreiber & Co., Manitowoc, Wis., $30,544; Hackworthy Construction Co., Appleton, Wis., $30,548; Chris Johnson, Oshkosh, Wis., $31,113; W. Reickert, Racine, Wis., $32,404; Andrew Thomsen, Racine, Wis., $33,597; Wooley & Hanson, La Crosse, Wis., $36,902; Thill & Lapitz, La Crosse, Wis., $38,139; Fraser & Elliott, Rochester, Minn., $38,485. Engineer's estimate, $28,113. Informal bids were also received as follows: W. I. Gray & Co., 704 South Fifth St., Minneapolis, Minn.; Tomah Pressed Stone & Sewer Co., Tomah, Wis.; J. F. Sweeney, Reedsburg, Wis., and F. O. Drawatzky Co., Tomah, Wis. Itemized bids are given this week under Contract Prices. D. J. Aller is City Clk. John W. Alvord and Charles B. Burdick are Engrs.

DES MOINES, IOWA.—Bids are asked until May 18 by the Board of Public Works, W. W. Wise, Chn., for furnishing material and constructing the Wright Grove sewer system, consisting of about 600 lin. ft. 12-in. and 3,750 lin. ft. 10-in. vitrified pipe. George D. Dobson is City Engr.

WELLS, MINN.—Bids are asked until May 21 by the Village Council for constructing sewers in C, D and E Sts. A. C. Stearns is Village Recorder.

CANEY, KAN.—Bids are asked until June 3 for construction of sewerage system to cost about $40,000. M. A. Earl & Co., of Muskogee, Ind. T., are Engrs.

FAIRBURY, NEB.—Bids are asked until June 4 for constructing 2,245 lin. ft. 8-in. sanitary sewer, including manholes and flush tank. F. L. Rain is City Clk. W. W. Watson is City Engr.

ST. JOSEPH, MO.—See under Light and Power Plants.

CAPE GIRARDEAU, MO.—Bids are asked until June 3 by Geo. E. Chappell, City Clk., for furnishing material and constructing sewerage system in Sewer Dist. No. 1, comprising about twelve miles of pipe sewers 8 to 22-in. in diameter, together with all necessary appurtenances. Granberry Jackson, of Nashville, Tenn., is Engr.

ST. LOUIS, MO.—The budget for the coming year was approved by the Ways and Means Committee of House of Delegates April 26, and includes for the construction of Harlem Creek and Glaise Creek sewers, $345,000; constructing sewers, streets, alleys and sidewalks, city's share of cost, $160,000; alteration and repairs to public buildings and in parks and public places, $138,565; extension of underground system of fire and police telegraph department, $25,000; streets and street commissioner's department, $1,417,561; public baths and playgrounds, $58,750.

Bids are asked until May 21 by the Board of Public Improvements for constructing sewers in portions of various streets. Charles M. Talbert is C. E., Bd. Pub. Impts.

WILLOW, COL.—The City Trustees contemplate constructing sewerage system. Estimated cost, $25,000.

ABERDEEN, WASH.—Bids are asked by P. F. Clark, City Clk., until 5 p. m., May 29, for constructing sewers in Sewer District B. A. W. Troutman is City Engr.

REGINA, SASK.—See under Water Supply—Irrigation.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

PITTSFIELD, N. H.—Bids are asked by the State Highway Department until May 21 for constructing macadam road. Estimated cost, $6,650. A. W. Dean is State Engr.

WOODSTOCK, VT.—Bids are asked by the Town Selectmen until May 20 for constructing road. Road to be completed Sept. 1.

BOSTON, MASS.—We are officially advised that the following bids were received May 4 by the Bureau of Yards and Docks, Navy Dept., Washington, D. C., for constructing brick and granite pavements at the Navy Yard, Boston: C. M. Leach, Navy Yard, Boston, Items 1 to 4, $41,000; James Doherty, 133 Calumet St., Roxbury, Mass., Items 1 to 4, $34,106; Walter H. Grose & Co., 54 Kelby St., Boston, Items 1 to 4, $39,139; Coleman Bros., 15 Court Sq., Boston, Items 1 to 4, $44,850, and P. Brennan & Co., 32 Chestnut St., Charlestown, Mass., Items 1 to 5, $32,001.

WENDELL, MASS.—Bids are asked until May 11 by the Selectmen, G. A. Fleming, First Selectman, for improving about 1,400 ft. of highway in Wendell under direction of the Massachusetts Highway Com.

PROVIDENCE, R. I.—Bids are asked until May 15 by the State Board of Public Roads, John H. Edwards, Chn., for constructing sections of State highways in the following towns: South Kingstown and Charlestown, about 35,480 ft.; Portsmouth, about 26,400 ft.; Little Compton and Tiverton, about 31,680 ft.; Scituate, about 23,760 ft.

NEW YORK, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. of Brooklyn, until 11 a. m., May 22, for regulating, repaving, grading, etc., portions of various streets, Boro. of Brooklyn.

Bids are asked by George Cromwell, Pres. Boro. of Richmond, until noon, May 28, for furnishing and delivering 300 bbls. Portland cement and 6,000 tons 1½-in. broken stone or screenings of trap rock or Staten Island syenite.

NEW YORK, N. Y.—Bids are asked by the Department of Parks, Moses Herrman, Pres., until 3 p. m., May 16, for furnishing material and laying cement sidewalk on walk around Kings Park, Jamaica, Boro. of Queens.

The following bids were received April 24 by Bird S. Coler, Pres. Boro. of Brooklyn, for regulating and repaving with asphalt block on concrete foundation Sixth Ave., from 44th St. to 57th St., Boro. of Brooklyn: Barber Asphalt Paving Co., 114 Liberty St., New York, $45,769; HASTINGS PAVEMENT CO., 25 Broad St., New York, $44,046 (awarded contract), and Continental Paving Co., 32 Broadway, New York, $48,588. The work consists of the following approximate quantities: 17,800 sq. yds. asphalt block pavement; 90 sq. yds. old stone pavement, relaid; 2,410 cu. yds. concrete; 3,790 lin. ft. new curb; 2,500 lin. ft. old curb, reset; 35 noiseless covers and heads for sewer manholes.

BUFFALO, N. Y.—Bids are asked by the Department of Public Works, F. G. Ward, Comr., until 11 a. m., May 10, for paving portions of Roma and Carroll Sts. and Harvey Pl. and repaving portion of Main St.

Bids are asked by the Department of Public Works, F. G. Ward, Comr., until 11 a. m., May 15, for constructing and repairing hard material sidewalks from date of contract to June 30, 1908.

The following are lowest bidders for repaving portions of various streets with (A) asphalt, (B) brick: High St., (A), German Rock Asphalt & Cement Co., Ltd., 305 D. S. Morgan Bldg., Buffalo, $36,920; (B), L. H. Gipp, 531 Ellicott Sq., concrete base, $38,678, and macadam base, $40,000. Genesee St., (A), German Rock Asphalt & Cement Co., Ltd. $12,170. Spaulding St., (A), H. P. Burgard Co., $7,800, (B), L. H. Gipp, $8,111. Linwood Ave., (A) Barber Asphalt Paving Co., 882 Elicott Sq., Buffalo, $6,373. Spring St., (A) H. P. Burgard Co., $11,000. Olga Pl., (A) Barber Asphalt Paving Co., $3,292. (B) L. H. Gipp, $2,911. Seneca St., (A), Barber Asphalt Paving Co., $3,620. Edward St., (A), H. P. Burgard Co., $5,000. Roeder St., (A), Frank V. E. Bardol, $3,516, (B), H. P. Burgard Co., $3,500. Lower Terrace, (A), Frank V. E. Bardol, $8,500; Medina sandstone, Miller & Franklin, $12,500. Perry St., (A), Frank V. E. Bardol, $19,000, (B), Frank V. E. Bardol, $19,000; Medina sandstone, Frank V. E. Bardol, $28,500. Concord St., (A), German Rock Asphalt & Cement Co., Ltd., $5,670. Newton St., (A), German Rock Asphalt & Cement Co., Ltd., $7,000. Geneva St., (A), Barber Asphalt Paving Co., $3,472. Tousey St., (A), Barber Asphalt Paving Co., $8,720, (B), Miller & Franklin, $9,000. Champlin St., (A), Barber Asphalt Paving Co., $4,968; (B), Miller & Franklin, $5,300. Washington St., (A), German Rock Asphalt & Cement Co., Ltd. $1,750. Alabama St., (A), Barber Asphalt Paving Co., $2,491, sandstone, Frank V. E. Bardol, $3,000. Bids were received April 27 by the Department of Public Works, F. G. Ward, Comr. Charles M. Morse is Deputy Engr. Comr.

FT. MOTT (Salem post-office), N. J.—Bids are asked by Capt. J. L. Knowlton, Const. Q. M., at Ft. Dupont, Delaware City, Del., until 11 a. m., June 1, for laying about 3,700 sq. ft. granolithic sidewalks, with road crossings and T. C. culverts, at Ft. Mott. (Advertised, Engineering News.)

LEWISTOWN, PA.—Bids are asked until 8 p. m., May 13, for paving Valley St. with vitrified brick and laying stone curb. The work includes 12,000 sq. yds. paving and 5,000 ft. curbing. W. P. Moore is Boro. Engr. (Advertised, Engineering News.)

ERIE, PA.—R. C. RUTHVEN, 76 Putnam St., Buffalo, N. Y., has been awarded contract for paving Twelfth St., at about $50,000. B. E. Briggs is City Engr.

REYNOLDSVILLE, PA.—Bids are asked by the Town Council, Clement W. Flynn, Secy., until 8 p. m., June 25, for grading, curbing and paving portion of Jackson St.

UPPER MARLBORO, MD.—Bids are asked until May 14 by the County Commissioners, Henry St. J. L. Briscoe, Clk., for improving public highways between Marlboro and Washington, known as the Marlboro Road, Section 2, Sections 3 and 4. The work includes grading and macadamizing about 2½-miles of road.

TOWSON (Baltimore post-office), MD.—Bids are asked until May 16 by the Baltimore County Highway Commissioners, at Towson, for grading and macadamizing ½-mile of Wilkens Ave., one mile of Park Heights Ave., 1½-miles of Black Rock Road, and 2½-miles of Fork Road; also paving with vitrified brick section of Clinton and Toone Sts., Canton. G. H. Shirley is Roads Engr.

FT. SCREVEN, GA.—Bids are asked by Joseph T. Davidson, Q. M., U. S. A., until June 1, for constructing gravel roads, gravel and granolithic walks, at Ft. Screven.

MONTGOMERY, ALA.—Bids are asked until May 20 for paving sidewalks with hexagon blocks or Schillinger pavement and for all necessary curbing and storm-water sewers in connection therewith on portions of Hamner and Holt Sts. and Finley and Highland Aves. R. S. Williams is City Treas.

LISBON, OHIO.—Bids are asked by Sam Huston, State Highway Comr., until May 23, for constructing highway.

PLYMOUTH, OHIO.—Bids are asked by the Township Trustees, W. A. Fenner, Chn., until May 21, for macadamizing and piking about four miles of roads. Albert Kirkpatrick is Township Clk.

PAULDING, OHIO.—Bids are asked until May 16 by the Board of County Commissioners for grading, draining and macadamizing Shaw, Briceton and Snyder Pikes. Total length, 25 miles. C. L. Straw is County Engr.

CONNEAUT, OHIO.—ROY L. WILLIAMS, of Kalamazoo, Mich., has secured contract for paving Harbor, Broad, Depot and 15th Sts. with brick at the following bid: 8,600 cu. yds. excavation, clay, 30 cts.; 2,400 sq. yds. brick paving, concrete foundation, $1.48; 24,000 cu. yds. asphalt fill, 20 cts.; 20,000 lin. ft. concrete curb with 18-in. gutter, 55 cts.; 1,900 lin. ft. 10-in. tile sewer, 60 cts.; 2,800 lin. ft. 12-in., 66 cts.; 1,300 lin. ft. 15-in., 74 cts.; 1,600 lin. ft. 18-in., 90 cts.; 650 lin. ft. 30 in., $3; 15 manholes, each, $25, and 28 inlets, each, $12; total, $61,855. A. E. French, Cleveland, bid for all four streets, $74,756; F. Le Roy Mallory, Oil City, Pa., bid for Harbor St. only, $54,190, and Philip Freshwater, Chester, W. Va., bid for Harbor St., $52,144, and Broad St., $6,989. T. F. Lininger is City Engr.

GARY, IND.—Bids are asked by the Board of Trustees, C. O. Holmes, Clk., until 3 p. m., May 18, for grading and paving with brick on sand foundation, and laying cement sidewalk and curb, on portion Broadway. (Advertised, Engineering News.)

PETERSBURG, IND.—Jefferson Township has voted $25,000 for constructing seven miles of turnpike road.

GOSHEN, IND.—Bids are asked until May 20 for paving five blocks with asphalt, five blocks with tar fill, and three blocks of alleys with brick. Tom Foster is City Clk.

SOUTH BEND, IND.—JAMES NELSON, of South Bend, has secured contract for paving with Barr block East Washington St., at the following bid: 12,250 sq. yds. pavement, $1.41; 1,280 lin. ft. curb, 20 cts.; 3,270 cu. yds. grading, 40 cts.; 18 inlets, each, $3; 390 ft. of 8-in. pipe, 40 cts.; total, $19,046. Alonzo J. Hammond is City Engr.

INDIANAPOLIS, IND.—Bids are asked by the Board of Public Works, Jas. T. Elliott, Chn., until June 1 for paving, curbing and guttering portions of 19th, New Jersey and Meridian Sts. Blaine H. Miller is City Engr.

GRAND RAPIDS, MICH.—C. J. CARPENTER has secured contract for paving Division St., from Wealthy to Fifth Aves., at $21,966. L. W. Anderson is City Engr.

DETROIT, MICH.—The contract for furnishing concrete paving blocks has been let to RUSSELL & JENNISON, at $88,041. Robert H. McCormick is City Engr.

CHICAGO, ILL.—Bids are asked until May 14 by the Department of Public Works, John J. Hanberg, Comr., for furnishing material and paving with macadam portion of South Halsted St. Bids also are asked at the same time for furnishing and delivering to the City of Chicago f. o. b. cars on a certain train track of the C. & N. W. R. R., near intersection of North Water and Rush Sts., about 30,000 No. 1 granite blocks and 4,000 lin. ft. granite flag.

Bids are asked by the Department of Public Works, John J. Hanburg, Comr., until May 15, for repairing with macadam portions of Wilson, Winthrop, Bryn Mawr and Southport Aves.

MOLINE, ILL.—THE TRI-CITY CONSTRUCTION CO. has secured contract for paving Second Ave., from 17th to 21st Sts., with brick, at $13,000. Clark G. Anderson is City Engr.

SPRINGFIELD, ILL.—The contract for paving four blocks on Monroe St. has been let to the CAPITAL CITY CONSTRUCTION CO., at $12,000. Frank H. Hamilton is City Engr.

MILWAUKEE, WIS.—The Board of Public Works, Vincent J. Schoenecker, Comr., has let contract to JOHN A. BAYLISS for grading the Highland Boulevard extension, at 40 cts. per cu. yd. The contract calls for excavating 15,839 cu. yds. and filling in 2,058 cu. yds. Charles G. Poetsch is City Engr.

DES MOINES, IOWA.—Bids are asked until May 20 by the Board of Public Works, W. W. Wise, Chn., for paving about 2,079 sq. yds. of Forest Drive with vitrified paving brick, and laying about 4,156 lin. ft. combined curb and gutter of Portland cement along University Ave. George D. Dobson is City Engr.

NEWTON, IOWA.—Bids are asked by A. C. Gates, City Clk., until 9 a. m., May 15, for paving portions of various streets.

FT. D. A. RUSSELL, WYO.—Bids are asked by V. K. Hart, Q.-M., U. S. A., at Cheyenne, Wyo., until 11.30 a. m., June 1, for furnishing material and laying approximately 9,555 sq. ft. concrete sidewalks and 100 sq. ft. stone road crossings, at Ft. D. A. Russell.

WEBB CITY, MO.—Bids are asked by W. E. Smith, City Engr., until May 20, for laying 1,680 lin. ft. stone curb, 18,174 sq. ft. cement sidewalks, 4,422 sq. yds. grading and graveling, 8,066 sq. yds. macadam and 4,814 sq. yds. brick pavement.

FT. LOGAN H. ROOTS (Argenta post-office), ARK.—Bids are asked by the Constructing Q. M., U. S. A., until June 1, for constructing extensions to sidewalks at this post.

SEATTLE, WASH.—Bids are asked by County Commissioners until May 14 for construction of 8,035 ft. of 16-ft. earth road.

SALEM, ORE.—The City Council has let contract for paving three blocks of State St. with waterproof bitulithic pavement to the WARREN CONSTRUCTION CO., Oregon Bldg., Portland, at about $23,000.

SAN FRANCISCO, CAL.—Bids are asked by Capt. B. F. Cheatham, Constr. Q.-M., 1088 North Point St., San Francisco, until May 18 for furnishing material, grading, constructing roads, drains, sidewalks, etc., at Forts Baker and Barry.

The Board of Public Works has let contract for repairing roadbed, gutters and curbs of Fourth St., between Howard and Freelon Sts., to C. S. HARNEY, at $59,672. Thomas P. Woodward is City Engr.

GEORGETOWN, ONT.—The contract for construction of granolithic sidewalks has been let to the ROYAL ART STONE PAVING CO., Guelph, Ont.

PRESTON, ONT.—The contract for construction of granolithic sidewalks has been let to the ROYAL ART STONE PAVING CO., Guelph, Ont.

WINNIPEG, MAN.—The Council has let contract to H. PENNOCK & CO. to supply from 2,000 to 3,000 tons of Bermudez Lake asphalt at $28.80 per ton. The following bids were also received: Barber Asphalt Paving Co., Land Title Bldg., Philadelphia, Genaso asphalt, $29.75 per ton net, asphalt, 98% of bitumen, $30.35 per ton; Trinidad asphalt, $24.10 per ton. H. P. Pennock & Co., Bermudez Lake bitumen, 78%, at $30.85; Texaco asphalt, $26.26 per ton. Globe Asphalt Co., Obispo, asphalt, $26.25 per ton net, and $26.85 per ton bitumen. H. N. Ruttan is City Engr.

The Civic Board has decided to lay asphalt on Dufferin Ave. from Main to Parr Sts., at cost of $102,328.

VANCOUVER, B. C.—The Board of Works has recommended that the contract for resurfacing portions of Granville, Cambie, Carroll and Cordova Sts. be awarded to the Barber Asphalt Paving Co., 114 Liberty St., New York, at $47,670.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

EAST BOSTON (Boston post-office), MASS.—Lockwood, Green & Co., Archs. and Engrs., 93 Federal St., Boston, intend to build at East Boston four mills of 60,000 spindles each, with central power plant, warehouses, wharf facilities and all features requisite for a plant of this nature, considering its location on tide water. The approximate size of the first building will be 450 × 130 ft. The power plant to be installed will have approximately 2,000 HP. for the initial installation.

WEBSTER, MASS.—S. Slater & Sons, Inc., will begin work immediately on constructing a weave shed for the accommodation of about 400 broad looms, besides a department for the burling, fulling and washing of the cloth. The work will cost $100,000. The shed is expected to be completed by fall, and will be a two-story structure, 400 × 130 ft.

ANDOVER, MASS.—MARR BROS., 95 Milk St., Boston, have been awarded contract to build a 5-story brick addition to the plant of the Tyre Rubber Co., Andover. Besides new work, some remodeling will be done. Estimated cost, $70,000. Henry G. L. Preston is Arch.

SPRINGFIELD, MASS.—Work will be commenced soon on construction of the addition to the car shops in West Springfield of the Boston & Albany R. R. Co. and installation of machinery for substituting electricity for steam power throughout the entire plant, for which an appropriation of $300,000 was recently made by the company. W. Shepard is Ch. Engr., Boston.

We are officially advised that the Phelps Publishing Co., of Springfield, has decided to erect a plant on its Worthington St. property. The building will have a facade of nearly 300 ft. on Worthington St., 100 ft. frontage on Broadway and 100 ft. frontage on Water St. It will be built entirely of reinforced concrete. Fred. S. Hinds, 19 Milk St., Boston, Mass., is Engr. and Arch.

PROVIDENCE, R. I.—The Bard-North Co., of Salem, Mass., jewelers, will erect a factory at Ontario and Broad Sts., which will cost about $75,000.

FULTON, N. Y.—It is reported that the American Woolen Co. intends building a new mill on the south end of the Willard property which was purchased by the company about a year ago. The mill will be 200 ft. long, extending along Pine St., and will have a frontage of 100 ft. in West First St. Half of the new structure will be one story high and the other half two stories, the former section being intended for the dye department and the latter for the finishing department. The rooms vacated in the old mill will be used for a development of the weaving department.

BUFFALO, N. Y.—The Wickwire Steel Co., recently incorporated with a capital of $1,000,000, has purchased 60 acres of land fronting on Niagara River, about one mile north of Buffalo, upon which it will construct at once a blast furnace with a daily capacity of 300 tons and ore docks about 1,000 ft. long, equipped with ore handling machinery. Julian Kennedy, Bessemer Bldg., Pittsburg, is Const. Engr. The company has established offices in the White Building, Buffalo.

The D. H. Stoll Co., 30 Lansing St., Buffalo, manufacturer of presses and dies for metal stamping, has purchased a site adjoining its present plant, upon which it will erect an additional factory building.

PHILADELPHIA, PA.—Plans have been completed by William Steele & Sons, 1600 Arch St., for a bread-baking plant to be erected for the Freihofer Vienna Baking Co., 23d and 24th Sts., on the block bounded by Clearfield St. to Indiana Ave. and from 19th to 20th St., 400.2 × 332 ft. All the buildings will be constructed of reinforced concrete, brick and terra cotta, and will be fireproof throughout. The plant will consist of a 1-story bread-baking building, 360 × 142 ft.; a 1-story bakery, 189 × 104 ft.; a 3-story shipping building, 390 × 93 ft., and a 1-story power plant, 70 × 102 ft. There will also be a cold storage plant, measuring 153 × 54 ft.

Contract has been awarded to J. W. EMERY, 1524 Sansom St., for constructing an 8-story factory and store building at 1214 Arch St. for A. H. Mershon. The structure will be brick and concrete, and will cost $125,000.

SHENANDOAH, PA.—Plans are being prepared by Emil Hartmann, Arch., 514 Walnut St., Philadelphia, for a 5-story brick and concrete fireproof addition to the Columbia Brewing Co.'s plant.

MILTON, PA.—Plans are being prepared by H. E. Yessler, York, Pa., for a 2-story slow-burning brick silk mill for S. H. Souter. The building will be 110 × 150 ft. Special machinery and power plant will be installed.

MINERSVILLE, PA.—Emil Hartmann, 514 Walnut St., Philadelphia, is preparing plans for a brewery for the Minersville Brewing Co. The structure is to be of brick, concrete and steel, three, four and five stories high. A power house is to be constructed and complete brewing machinery installed.

ALLENTOWN, PA.—Contract for constructing a silk mill for Kaltenbach & Stevens, of Brooklyn, N. Y., was awarded to RITTER & SMITH, Gordon and Jefferson Sts., Allentown. The building will be 350 × 100 ft., constructed of brick and steel.

CHESTER, PA.—The Keystone Steel Coating Co. has awarded contract to NOLAN BROS. for constructing an annealing plant, 60 × 100 ft.; a foundry, 80 × 150 ft., and a machine shop, 40 × 100 ft.

LANCASTER, PA.—The Armstrong Cork Co. has purchased 30 acres of land near this city, on which will be erected linoleum factory buildings, at $600,000.

NORFOLK, VA.—Norfolk Wire Cloth & Wire Fence Mfg. Co. proposes to erect and equip buildings at cost of $125,000 for the production of wire fence and wire cloth. Officers are: Paul R. Howard, Pres., and J. P. Andre Mottu, Secy. and Treas. Address Box 395, Norfolk.

ROCKWELL, N. C.—Paul P. Barringer has arranged for erection of a mill at Rockwell. The building will be 100 × 200 ft., and will have an equipment of 5,000 spindles for manufacturing cotton yarns. Electricity will be used to operate the machinery.

NORTH AUGUSTA, S. C.—George W. Green and Paul P. Bush will erect a 3-story knitting mill here to cost about $15,000.

CORINTH, MISS.—The North Mississippi Lumber Co. contemplates establishing plant to consist of sawmill with daily capacity of 20 carloads of logs, battery of drying kilns and planing mill. It has invested $1,500,000 in timber lands along the new line of the Illinois Central R. R. Co.

GULFPORT, MISS.—The Ingram-Day Lumber Co. will make improvements to the plant of the Gulf Coast Lumber Co., recently purchased. It is proposed to erect sawmill, 72 × 238 ft., with an addition 64 × 100 ft., equipped with three band saws, two resaws and Corliss engine to operate machinery and generate electricity for lighting plant and town. Lath and shingle mill will be added and the capacity of the new plant will be 150,000 ft. daily. Company now owns 15 miles of logging road, which will be extended during the summer.

NEW ORLEANS, LA.—Arrangements are being made by the Gulf Lumber Co., capitalized at $3,000,000, for installing lumber plant and establishing a town. The site has been surveyed and streets are being constructed. It is proposed to install a sewer system. Contracts will soon be awarded for machinery and supplies required for equipping plant. Sawmill will consist of four bands, gang and band resaw, with capacity of 300,000 ft. in 10 hours; planing mill, dry-kiln, etc. About 2,000,000,000 ft. of timber is available. A power plant will also be built. The logging road of the company, known as the Gulf & Sabine River Ry., will be used for serving plant with saw material, and will add to shipping facilities when demanded: S. H. Fullerton, St. Louis, Mo., is Pres.; O. H. Ingram, Eau Claire, Wis.; M. L. Fleishel, St. Louis, Mo., and V. M. Davis, Ansley, La., Vice-Prests.; Paul D. Rust, Secy., and Frank Goepel, 3936 Delmar Ave., St. Louis, Mo., Treas. The main office is in St. Louis, Mo.

RAVENNA, OHIO.—The John F. Byers Machine Co., Ravenna, Ohio, has prepared plans and will begin the erection of new foundry, pattern and blacksmith buildings soon. The structures will represent an outlay of from $15,000 to $20,000.

AKRON, OHIO.—The Burger Iron Co. has let general contract to GEORGE W. CARMICHAEL, Hamilton Bldg., for constructing four brick concrete and steel factory buildings, one to be 100 × 200 ft., one 40 × 40 ft. and two 36 × 40 ft. Cost, $75,000.

The Diamond Rubber Co. has let general contract to GEORGE W. CARMICHAEL & CO. for a 5-story and basement brick, concrete and steel factory building, 100 × 225 ft. Cost, $150,000.

FREDERICKTOWN, OHIO.—A factory for the manufacture of ice cream freezers and hardware specialties will be established in Fredericktown by F. B. Zieg. The plant will consist of two buildings, one 50 × 160 ft. and the other 24 × 80 ft.

YOUNGSTOWN, OHIO.—Julian Kennedy, Bessemer Bldg, Pittsburg, is consulting engineer in erection of two blast furnaces for the Youngstown Sheet & Tube Co., at Youngstown. Mr. Kennedy has placed contracts for the steel plate work for these furnaces with the VARIETY IRON WORKS CO., Cleveland, Ohio, and the engines with the WILLIAM TOD CO., Youngstown, Ohio. He has also placed a contract with the RUST BOILER CO., 313 Sixth Ave., Pittsburg, for 16, 500 HP. water tube boilers, to be set up individually.

BLUFFTON, IND.—Bids are asked by the Turner, Day & Woolworth Handle Co. for construction and equipment of a handle factory in this city. C. C. Meller is Agt.

INDIANA HARBOR, IND.—The Harbinson-Walker Refractories Co., Farmers' Bank Bldg., Pittsburg, has completed arrangements to erect a $350,000 fire brick plant here. The main building of the plant will be 400 × 450 ft., of steel frame, with brick veneer exterior. It will be in the center of the company's 25-acre lot, and readily accessible to lake and rail transportation.

DETROIT, MICH.—The Detroit Sulphite Pulp Paper Co. has awarded general contract to GEORGE RICKMAN & SONS, Kalamazoo, Mich., for four buildings, for manufacturing plant. They are to have two stories, and will be 226 × 90 ft., 100 × 110 ft., 200 × 44 ft. and 107 × 60 ft., of brick, with composition roofs. Cost, $100,000. H. H. Everard is Pres.

CHICAGO, ILL.—Henry W. Tomlinson, 17 Van Buren St., is preparing plans for a manufacturing plant to be built at Lowe Ave. and 41st St., for the Great Western Smelting & Refining Co., 173 to 189 West Kinzie St. It will be 1-story, 510 × 133 ft., and cost about $75,000.

HASTINGS, NEB.—The contract to erect a $125,000 brewery, it is reported, has been awarded to BOOLINGER BROS., of Pittsburg, Pa. The contract calls for the erection of the brewery complete, thoroughly equipped with the most modern machinery.

SOUTH McALESTER, IND. T.—The Bottleville Zinc Co. has let general contract to Reinschmidt & Haennle, Frisco Bldg., St. Louis, Mo., for a 1 and 2-story reinforced concrete and brick smelting and refining plant, to be erected at Bottleville. Cost, $200,000.

HOUSTON, TEX.—H. E. Elrod and others of Houston, Texas, have organized a company with a capital stock of $50,000 and have secured a site upon which they will erect a plant to include structural steel shop, forge shop, templet shop, warehouse and other buildings. The buildings will be of steel construction and work of erection will be started soon.

ABERDEEN, WASH.—The C. E. Burrows Lumber Co. will install a 9-ft. bandsaw, a 7-ft. resaw, two additional boilers and an engine, to cost, in all, about $25,000.

SALT LAKE CITY, UTAH.—The Salt Lake Knitting Works Co., corner of First North and Second West Sts., will enlarge its quarters. D. C. Dart, Arch., 537 Atlas Block, has prepared plans for a 3-story brick building at the corner of First North and Second West Sts. Joseph F. Smith is Pres. of the company; John R. Winder, Vice-Pres.; Joseph Nelson, Treas.; J. R. Smith, Secy.; J. H. Garrett, Mgr.

FORT DES MOINES, IDAHO.—Bids are asked until May 31 by W. E. Cole, Q. M., for furnishing and installing certain machinery in the bake house at this post.

THREE RIVERS, QUE.—The Wabasso Cotton Mills Co., recently organized with a capital of $1,500,000, will erect a plant here. The city has given a bonus of $75,000 on conditions the plant does not cost less than $1,000,000.

NIAGARA FALLS, ONT.—J. S. Fielding, C. E., 15 Toronto St., Toronto, has awarded contract for erecting a factory for the Carriage Mountings Co. at Niagara Falls to A. SWITZER, Toronto.

HAMILTON, ONT.—J. C. Myles has acquired property here on Hunter St., on which to erect a 5-story factory building.

TIFFIN (Midland post-office), ONT.—The Grand Trunk Pacific Ry. Co. has awarded contract to J. S. METCALFE for the construction of a 2,000,000-bu. elevator at Tiffin.

ST. THOMAS, ONT.—The St. Thomas Packing Co., Limited, St. Thomas, has secured about five acres on which it will build an abattoir and packing house, and a fertilizer plant. The abattoir and packing house building will be 100 × 80 ft., concrete blocks, one story. The new plant will represent an investment of about $20,000, and is expected to be completed about Oct. 1. N. R. Darrach, St. Thomas, is Arch.

WESTON, ONT.—The Sanitary Packing Co., Weston, will erect a new plant this spring at a cost of about $20,000. The entire plant will comprise a 2-story warehouse and storeroom 100 × 30 ft., a machinery and operating building, 75 × 40 ft., a process room, 32 × 27 ft., connected with main factory by an archway, and a brick boiler room, 32 × 27 ft.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

ORE DOCKS.—Buffalo, N. Y.—See under Manufacturing Plants.

DITCH.—Fort Snelling, Minn.—Bids are asked until May 15 by J. A. Barry, Q. M., U. S. A., for constructing drainage ditches.

WHARF REPAIRS.—Fort Washington, Md.—Bids are asked until June 1 by the Constructing Q. M., U. S. A., Fort Washington, for repairs to timber wharf here.

RIPRAP.—Ashland, Wis.—Bids are asked until noon, June 6, by Maj. Graham D. Fitch, Corps Engrs., U. S. A., Duluth, Minn., for furnishing riprap at Ashland. (Advertised, Engineering News.)

REPAIRING BATHS.—New York City.—Bids are asked until 3 p. m., May 17, for repairing and painting 14 free floating baths, located at the foot of 22d St., South Brooklyn. John F. Ahearn, Pres. Boro. Manhattan.

CREOSOTED LUMBER, RUBBLE STONE.—Charleston, S. C.—Bids are asked by Capt. G. P. Howell, Corps Engrs, U. S. A., until noon, May 29, for furnishing creosoted lumber and rubble stone. (Advertised, Engineering News.)

DREDGING.—Baltimore, Md.—Bids are asked until 1 p. m., June 3, by Lieut.-Col. R. L. Hoxie, Corps Engrs., U. S. A., 812 St. Paul St., for dredging in several harbors and rivers in Maryland. (Advertised, Engineering News.)

LOCK-GATE MACHINES.—St. Catharines, Ont.—Bids are asked until May 16 by L. K. Jones, Secy. Dept. Railways and Canals for 104 power driven lock gate operating machines. J. L. Weller, Engr., St. Catharines.

JETTY CONSTRUCTION.—Wilmington, Del.—Bids are asked by Maj. C. A. F. Flagler, Corps Engrs., U. S. A., until 11 a. m., May 20, for jetty construction and repairs at mouth of Mispillion River. (Advertised, Engineering News.)

LOCK AND DAM.—Irvine, Ky.—Bids are asked by Maj. J. G. Warren, Corps Engrs., U. S. A., Cincinnati, Ohio, until 2 p. m., June 4 for constructing Lock and Dam 12, Kentucky River, near Irvine, Ky. (Advertised, Engineering News.)

DREDGING—Boston, Mass.—Bids are asked until May 25 by Maj. Edw. Burr, Corps Engrs., U. S. A., Boston, for dredging in Beverly Harbor, Mass. Specifications and bidding sheets are on file at New York office of Engineering News.

RIPRAP EMBANKMENT.—New York, N. Y.—Bids are asked by J. A. Bensel, Comr. of Docks, until noon, May 21, for preparing for and building an embankment of riprap under the ferry structures at St. George, S. I., Boro. Richmond.

UNDERGRADE CROSSING.—Louisville, Ky.—HENRY BICKEL CO. has been awarded contract for construction of undergrade crossing in Oak St. under tracks of Illinois Central R. R. Itemized prices are given this week under Contract Prices.

WHARF.—Sorel, Que.—Bids are asked until May 22 by Fred. Gelinas, Secy. Dept. Public Works, Ottawa, Ont., for additional front to wharf at Sorel, including crib work. J. L. Michaud, Res. Engr., Merchants' Bank Bldg., St. James St., Montreal, Que.

ORDNANCE.—Washington, D. C.—The Bureau of Ordnance, War Dept., Washington, has awarded to the UNITED STATES RAPID FIRE GUN & POWDER CO., Bridgeport, Conn., contract for furnishing 2,000 15-pounder cast-iron shell at $1.25 each.

RIPRAP.—Bridgeport, Conn.—Bids are asked until noon, June 7, at the U. S. Engineer Office, New London, Conn., for delivering riprap stone in breakwaters at Bridgeport. Maj. Harry Taylor, Corps Engrs., U. S. A. (Advertised, Engineering News.)

REPAIRING FERRYBOATS.—New York, N. Y.—Bids are asked until noon, May 21, by J. A. Bensel, Comr. of Docks, for repairing the municipal ferryboats or other floating property of the department, and furnishing and delivering miscellaneous supplies therefor.

LEVEE.—Marysville, Cal.—The Levee Commissioners have awarded EDWARD MALLEY, of San Francisco, contract for raising the city levees at a cost of $76,300. The levees will be raised five feet above the high water mark, and will have a crown 16 feet wide.

STREET SIGNS.—New York, N. Y.—Bids are asked by Bird S. Coler, Pres. Boro. Brooklyn, until 11 a. m., May 15, for furnishing to the Bureau of Public Buildings the following signs: 5,000 enameled street signs; 3,500 glass street signs; 750 stencil street signs.

HARBOR EXCAVATION.—Buffalo, N. Y.—Bids are asked until 11 a. m., June 1, by Col. H. M. Adams, Corps Engrs., U. S. A., for harbor excavation at Buffalo. Specifications and bidding sheet are on file at New York office of Engineering News. (Advertised, Engineering News.)

DIKE.—Grand Chain, Ill.—Bids are asked at the U. S. Engineer Office, Cincinnati, Ohio, until 2 p. m., June 6, for building a dike and shore protection in the Ohio River, near Grand Chain. Lieut.-Col. William T. Russell, Corps Engrs., U. S. A. (Advertised, Engineering News.)

LEVEE.—Memphis, Tenn.—All bids opened on April 24 by the St. Francis Levee Board, W. B. Miller, Pres., for constructing about 2,000,000 cu. yds. levee work, have been rejected as being too high and new bids will be called. H. N. Pharr, Ch. Engr., 168 Randolph St., Memphis, Tenn.

BREAKWATER SUPERSTRUCTURE.—Oswego, N. Y.—Bids are asked until 11 a. m., June 1, at the U. S. Engineer Office, Buffalo, N. Y., for constructing stone-concrete superstructure on the outer breakw... at Oswego. Col. H. M. Adams, Corps E... U. S. A. (Advertised, Engineering N...

LEVEE.—Greenville, Miss... H. West, Ch. Engr., Mississippi Leve... that the contract for const... Duvall's has been awarded ... FOOTE, of Grace, Miss.... ceived on April 23 for 176... 23.24 cts. per cu. yd.; total...

PIER, BREAKWATER.—... are asked by Col. H. M. ... Engrs., U. S. A., at Buffa... May 22, for extending south ... ing south breakwater at E... Specifications and bidding ... at New York office of Eng...

DREDGING.—Tarrytown, N... asked until noon, May 31, ... harbor at Tarrytown. Col. ... Corps of Engrs., Army Bldg., ... St., New York. Specifications ... sheet are on file at New York ... neering News. (Advertised, ... News.)

CEMENT.—Brandon, Man., ... for supplying from 6,000 to ... bbls. of Portland cement has been awarded to THOMAS BLACK, of Winnipeg, Man., at $2.85 per 350-lb. bbl. f. o. b. Brandon. Brand, made in Owen Sound, ... Shillinglaw, City Engr.; Harry ... Clk.

LEVEE.—Memphis, Tenn.—Bids are asked until noon, June 1, at the U. S. Engineer Office, Custom-House, Memphis, for about 1,600,000 cu. yds. of levee work in First and Second Districts, Mississippi River Improvement. Capt. William D. ... Corps Engrs., U. S. A. (Advertised, Engineering News.)

CANAL.—Great Falls, Mont., John W. Wade, of Helena, State Engr., states that contracts have not been let as yet for the proposed Dearborn Canal, which will cost about $50,000. A. E. Cumming, of Helena, Engr.-in-Charge. H. S. Anue is care of Mississippi Valley Trust Co., of St. Louis, Mo., is interested in this work.

VENTILATING EQUIPMENT.—New York, N. Y.—Bids are asked by James W. Stevenson, Comr. of Bridges, until 2 p. m., May 16, for installing the ventilating system and the electrical equipment for the Manhattan subway station of the Williamsburg (New East River) Bridge over the East River, between the Boroughs of Manhattan and Brooklyn.

DREDGING.—Des Moines, Iowa.—Bids were received on May 2 for improvement of the Des Moines and Raccoon Rivers within the corporate limits of this city, consisting of dredging, rip-rap work, concrete construction, etc. The COOK CONSTRUCTION CO., of Des Moines, was the only bidder, at $328,927. Estimated cost, $275,000. George B. Dobson, City Engr.

PIER SUPERSTRUCTURE.—Harbor Beach, Mich.—Bids are asked until 2 p. m., May 27, by Col. Charles E. L. B. Davis, Corps Engrs., U. S. A., U. S. Engineer Office, Detroit, Mich., for removal of old superstructure and building concrete superstructure on main pier at Harbor of Refuge, Harbor Beach. Specifications and bidding sheet are on file at office of Engineering News, New York. (Advertised, Engineering News.)

REPAIRING STATUE OF LIBERTY.—New York, N. Y.—Bids are asked by G. C. Burnell, Construct. Q. M., Fort Wood, N. Y. H., until 11.30 a. m., June 1, for making repairs and additions to Statue of Liberty, including filling and grading, repairs to concrete work, furnishing and installing elevator, painting steel framework, constructing walks and steps, furnishing settees, dredging and making wharf repairs, and constructing house and fence on wharf.

TUNNEL ENTRANCE.—Boston, Mass.—Bids are asked by the Boston Transit Commission, B. Leighton Beal, Secy., until noon, May 16, for constructing a Washington St. tunnel entrance and exit at northwest corner of Boylston and Washington Sts. The work to be done includes removing a portion of the roof of the existing subway structure in Boylston St. and rebuilding at a higher level, also underpinning the walls of the building.

RIVER IMPROVEMENT.—Buffalo, N. Y.—Bids are asked by Francis G. Ward, Comr. of Public Works, Buffalo, at 11 a. m., May 17, for the improvement of Buffalo River and Cazenovia Creek within the city. The work includes about 4,600,000 cu. yds. earth excavation; 10,000 cu. yds. rock excavation; 1,500 lin. ft. pile protection, timber cribbing, etc. The work is for the abatement of floods and extension of navigation. Chas. M. Morse, Deputy Engr. Comr.

FENCE.—New York, N. Y.—Bids were received as follows by the Department of Health on May 7 for erecting a fence at the Kingston Ave. Hospital, Boro. of Brooklyn: Kelley & Kelley, 39 East 42d St., $15,278; P. J. Brennan, Fuller Bldg., $18,000; Wm. Horne & Co., 71 West 132d St., $15,400; Chas. Meads & Co., 299 Broadway, $12,840; Frank H. Murphy, $17,849; Glen Engineering & Contracting Co., 181 Broadway, $13,223; James McArthur, 22 Orrilande Pl., Brooklyn, $14,936.

DITCH.—Vandalia, Ill.—P. E. Fletcher, of Vandalia, Engr. Wild Cat Drainage Dist., states that R. H. McWILLIAMS, of Mattoon, Ill., has secured the contract for the construction of main ditch and laterals, aggregating approximately 157,150 cu. yds., for $17,990.

Bids are asked by Albert & Roe, Attys., at Vandalia, until May 25, for the construction of main ditch and laterals aggregating approximately 129,600 cu. yds. P. E. Fletcher, of Vandalia, Engr.

SUPPLIES, PILES.—New York, N. Y.—Bids are asked by the Dept. of Docks and Ferries until noon, May 17, for furnishing miscellaneous supplies.

Bids are asked until the same date for furnishing all the labor and materials required for furnishing and delivering piles. The time for the completion of the work and the full

performance of the contract is as follows: Class 1—On or before expiration of 180 calendar days. Class 2—On or before expiration of 90 calendar days. The amount of security required is as follows: Class 1, $33,000; Class 2, $5,000. The bidder will state the price per pile by which the bids will be tested, and awards made to the lowest bidder on each class. J. A. Bensel, Comr.

TELEPHONE LINES.—Milwaukee, Wis.—Officers elected by the stockholders at the annual meeting of the Milwaukee Independent Telephone Co. are as follows: H. D. Critchfield, Pres.; E. A. Wadhams and J. S. Van Nortwick, Vice-Pres.; C. J. Chapin, Secy.; Howard Greene, Treas.; directors, J. M. Bear, W. W. Cargill, C. J. Chapin, H. D. Critchfield, Howard Greene, J. C. Harper, B. G. Hubbell, George P. Mayer, Wilmer Sieg, Richard Valentine, J. S. Van Nortwick, E. A. Wadhams, Richard Wagner and J. B. Whitnall. A contract was entered into with the Century Telephone Co. for furnishing material and labor and completing the installation of a system of 15,000 telephones. A plant with a capacity of 75,000 telephones will be built and operations will be begun June 1, 1908.

RIPRAP.—Wilmington, N. C.—The following bids were received by Maj. Joseph E. Kuhn, Corps Engrs., U. S. A., May 2, for supplying about 20,000 tons of riprap stone: (a) price for large stone; (b) for small stone; (c) delivered, f. o. b.: Pine Mountain Granite Co., Atlanta, Ga., (a) $2.35, (b) $2.10, (c) cars at Wilmington; Charles G. Smith & Son, Washington, D. C., (a) $3.33, (b) $3.33, (c) vessel anchored in Cape Fear River; Long Blue Granite Co., Elberton, Ga., (a) $2, (b) $2, (c) cars, Wilmington; Pennsylvania Stone Co., New York, N. Y., (a) $2.45, (b) $2.45, (c) vessel anchored in Cape Fear River; J. Leopold & Co., New York, N. Y., (a) $2.75, (b) $2.75, (c) vessel anchored in Cape Fear River; William L. Virden, Lewes, Del., (a) $3.25, (b) $3.25, (c) cars, Wilmington; Morrison Dredging Co., New York, N. Y., (a) $3.31, (b) $3.31, (c) vessel anchored in Cape Fear River; Winsboro Granite Co., Rion, S. C., (a) $1.89, (b) $1.89, (c) cars, Wilmington.

SUBMARINE TORPEDO BOATS.—Washington, D. C.—Bids were received on April 30 by the Navy Department for the contracts for supplying as many submarine torpedo boats as could be built for $3,000,000, appropriated for the purpose by the last Congress. The opening of these bids was fixed for April 30 because a test begins at Newport at the same time to determine the qualifications of two types of boats which have already been constructed, and upon the result of these tests depends the qualifications to be required in the case of these new boats for which proposals were opened. So different were the bids in the matter of size of boats, speed, afloat and submerged, radius of actiop, above and below water, and other essentials that it will require long consideration by the Navy Department's bureau experts to determine which of the bids is in fact the lowest and most desirable. From the bids received, the Lake Torpedo Boat Co., of Bridgeport, Conn., submitted what, on its face, was the lowest bid, that is, to build at the Bath Iron Works, in Maine, any number of 235-ton boats above five at $198,000 each. These boats are to be delivered, one every three months after the expiration of a period of eighteen months from the date of contract. The Lake Co. also proposed to build its boats on the Pacific Coast or the Gulf Coast, if the Navy Department so preferred. The company submitted four different types of bids, the differences being mainly in the size and price of the boats, the largest being of 500 tons, to cost in lots of five or more, $233,000 each, with a maximum surface speed of 15 knots.

The Sub-Surface Boat Co., of New York, submitted plans for a boat of 250 tons to cost $250,000, with a speed of 19 knots, and a cruising radius of 2,000 knots. This company has no boat under test at Newport, but submitted full specifications of one it offers to build at Bath.

The Electric Boat Co., 5 Nassau St., New York, which has built all of the submarines now in the American navy, put in bids for two types of boats. The first, patterned after the "Octopus," now in the navy (with a few improvements), of 274 tons, and to cost in lots of five or more $312,000 each. The second is to be larger, displacing 340 tons, to be of greater speed than the "Octopus," ranging from 8 to 13 knots, in various conditions of submergence, and to cost in lots of five, or more, $379,000 each. Built on the Pacific Coast the same type of boats would cost respectively $340,000 and $417,000 each.

LIGHT-HOUSE TENDERS.—Washington, D. C.—Bids were opened at the office of the Light House Board on April 30 for furnishing the materials and labor of all kinds necessary for the construction and delivery of eight twin-screw steel steam light-house tenders as follows: Newport News Shipbuilding & Dry Dock Co., Newport News, Va., for all the materials and labor necessary to completely construct, equip and deliver at the general light house depot at Tompkinsville, N. Y., four twin-screw steel steam light house tenders, $189,000 each; alternate bid, five to eight twin-screw steel steam light house tenders, $187,000 each; time, 15 months to construct any number of vessels in excess of four.

Bath Iron Works, Ltd., Bath, Me., to furnish all the materials and labor necessary to completely construct, equip and deliver at the general light house depot at Tompkinsville, N. Y., two twin-screw steel steam light house tenders, $197,000 each; time, as per specifications.

Maryland Steel Co., Sparrows Point, Baltimore, Md., to furnish all the materials and labor necessary to completely construct, equip and deliver at the general light house depot at Tompkinsville, N. Y., two twin-screw steel steam light house tenders, $199,750 each; for three twin-screw tenders, delivery at Tompkinsville, N. Y., $198,150 each; for four twin-screw tenders, delivery at Tompkinsville, N. Y., $196,500 each.

Fore River Shipbuilding Co., Quincy, Mass., to furnish all the materials and labor necessary to completely construct, equip and deliver at the general light house depot at Tompkinsville, N. Y., one twin-screw steel steam light house tender, $196,700 for same tender fitted with Babcock and Wilcox water tube boilers, $193,300 for two twin-screw tenders, delivered at Tompkinsville, N. Y., $189,500 each; for same two tenders fitted with Babcock & Wilcox water tube boilers, $186,300 each; for three twin-screw tenders, delivered at Tompkinsville, N. Y., $187,400 each; for same three tenders fitted with Babcock & Wilcox water tube boilers, $184,000 each; for four twin-screw tenders, delivered at Tompkinsville, N. Y., $186,200 each; for same four tenders fitted with Babcock & Wilcox water tube boilers, delivered at Tompkinsville, N. Y., $182,700 each; for five to eight twin-screw tenders, delivered at Tompkinsville, N. Y., $184,800 each; for same five to eight tenders fitted with Babcock & Wilcox water tube boilers, $181,000 each.

New York Shipbuilding Co., Camden, N. J., to furnish all the materials and labor necessary to completely construct, equip and deliver at the general light house depot at Tompkinsville, N. Y., four twin-screw steel steam light house tenders, $165,000 each; for same four tenders fitted with Babcock & Wilcox water tube boilers, $169,000 each; for five to eight twin-screw tenders, delivered at Tompkinsville, N. Y., $164,000 each; for same five to eight tenders fitted with Babcock & Wilcox water tube boilers, $168,000 each; for one tender delivered at Detroit, Mich., add $3,000 to each of above bids.

CONTRACT PRICES.

SEWERAGE.—Tomah, Wis.—Bids were received on April 26 for constructing sewer system. John W. Alvord and Charles B. Burdick are Engrs. The bidders were: (A) E. R. Harding, Racine, Wis.; (B) A. C. Shreiber & Co., Manitowoc, Wis.; (C) Hackworthy Cons. Co., Appleton, Wis.; (D) Chris. Johnson, Oshkosh, Wis.; (E) W. Reickert, Racine, Wis.; (F) Andrew Thomsen, Racine; (G) Woolley & Hanson, La Crosse, Wis.; (H) Thill & Lapitz, La Crosse; (I) Fraser & Elliott, Rochester, Minn.; (J) Engineer's Estimate; (K) W. I. Gray & Co., Minneapolis, Minn.; (L) Tomah Pressed Stone & Sewer Co., Tomah; (M) J. F. Sweeney, Reedsburg, Wis.; (N) F. O. Drawatzky Co., Tomah:

Formal bids:

	Cut = Septic tank.	2'-5.5' 20"	6' 3.9'-16.4' 15"	3.4'-14.2' 12"	3.3'-8.4' 10"	8"	Manholes.	Flush tank.	Rock.	Total.
(A)	$3,900.00	$1.28	$0.82	$1.14	$0.70	$0.45	$24.00	$85.00	$5.00	$27,929
(B)	3,900.00	1.29	.84	1.00	.94	.52	30.00	75.00	4.00	30,544
(C)	4,400.00	1.70	1.15	.73	.91	.51	30.00	50.00	2.25	30,548
(D)	3,000.00	1.30	1.00	1.15	1.05	.53	30.00	85.00	4.00	31,113
(E)	8,000.00	2.00	1.00	.65	1.00	.30	20.00	70.00	5.00	32,401
(F)	6,000.00	1.50	1.00	.90	.80	.60	30.00	70.00	5.00	33,597
(G)	6,413.00	1.60	1.10	.88	.90	.62	43.00	56.00	2.00	36,902
(H)	6,500.00	1.40	1.00	.85	.80	.50	70.00	60.00	5.00	38,159
(I)	4,650.00	1.50	1.10	1.10	.90	.60	63.00	80.00	2.00 / 4.00	38,485 / 28,113
(J)	2,813.00	1.25	.80	.95	.77	.52	25.00	100.00	....	.....
Informal bids:										
(K)	4,500.00	2.45	1.95	1.15	1.12	.90	60.00	160.00	....	.....
(L)	1,935.00	....	....	....	....	....	....	....	....	.....
(M)	.....	2.00	1.57	1.33	1.27	.51	30.00	90.00	3.00	.....
(N)	.....	1.53	1.18	1.25	1.17	.66	50.00	135.00	6.00	.....

UNDERGRADE CROSSING.—Louisville, Ky.—Bids were received as follows by the Department of Public Works on April 29 for undergrade crossing in Oak St., under the Illinois Central R. R. tracks: (DD) Henry Bickel Co., Whayne Bldg., Louisville; (CC) L. R. Figg, 243 Sixth St., Louisville; (BB) National Concrete Construction Co., Board of Trade Bldg., Louisville; (AA) Engineer's estimate:

	(DD)	(CC)	(BB)	(AA)
26,000 cu. yds. excavation (clay and gravel)	$0.70	$0.98	$1.02	$0.50
4,540 cu. yds. backfill	.45	.68	.65	.25
1,407 cu. yds. reinforced concrete in abutments	11.65	12.58	12.90	12.00
2,333 cu. yds. reinforced concrete in other s	10.90	12.90	13.16	12.00
400 cu. yds. plain concrete	7.00	9.50	9.48	8.00
2,420 sq. yds. granite block pavement with 6" nat. cement con. foundation	2.70	3.60	3.65	2.50
570 sq. yds. brick pavement (new brick) on sand foundation	.58	.70	.70	.55
700 sq. yds. brick pavement (old brick relaid) on sand foundation	.25	.40	.35	.25
495 lin. ft. resetting old curb	.25	.50	.60	.20
4 resetting old cornerstones (curb)	1.00	1.50	1.00	1.00
50 lin. ft. steel curb edge	.50	.50	.35	.50
Days to complete	140	140	110	
Total	$72,477	$90,420	$92,523	$69,181

All concrete 1-2½-5 Portland cement reinforcement—corrugated bars.

U. S. POSSESSIONS AND CUBA.

LOCOMOTIVE CRANES.—Panama.—Bids were opened May 7, at the office of David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for furnishing four locomotive cranes, as follows: American Trading Co., 25 Broad St., New York, $41,400; 150 days. Industrial Works, Bay City, Mich., $39,820; 145 days. Brown Hoisting Machinery Co., Cleveland, Ohio, $75,200; 210 days.

PILES.—Panama.—David W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., has awarded to the SALMEN BRICK & LUMBER CO., 716 Common St., New Orleans, at its bid of $42,070; delivery, 90 days.

FRENCH SCRAP DUMP CARS.—Panama.—Bids are asked until 10.30 a. m., May 20, by Alfred Anderson, Asst. Pur. Agt., Isthmian Canal Comn., 24 State St., New York, for purchase of 700 old French dump cars.

FOREIGN CONTRACTS.

RAILWAY.—Brazil.—The Ministry of Industry, Ways of Communication and Public Works has been allowed a special credit of 300,000 milreis ($91,300) for widening the gage of the Central Railway of Brazil between Gage and Kilomtre 501, on the Ouro Preso branch.

RAILWAY, TELEPHONE AND STEEL FOUNDRY.—Japan.—In the Japanese Budget for the fiscal year ending March 31, 1908, is included a revenue estimate of $31,256,180 yen from subscriptions to national loans, which it is proposed to apportion to the following enterprises: Construction and improvement of the railways, 22,320,000 yen; extension of telephone service, 3,000,000 yen; establishment of steel foundries, 5,936,180 yen; total, 31,256,180 yen ($15,566,774).

RAILWAY AND PORT WORKS.—Bulgaria.—A bill has been submitted to the Sobranye for a grant to the Ministry of Public Works of a supplementary credit of 34,000,000 frs. ($6,620,000), to be applied to the following works: Construction of the railway lines Gabrovo to Trevna, Mezdra to Vratza and Vidin, and Stara-Zagora to Tirnovo-Seimen; construction of a port at Baltchik, of a quay at Svichtow, of four warehouses at Bourgas, and of a mole at Varna, the chief seaport.

RAILWAY ROLLING-STOCK.—Austria-Hungary.—The "Moniteur des Interets Materiels" (Brussels) reports that the Hungarian Government has decided to devote 60,000,000 crowns ($12,000,000) for the purchase of rolling-stock for the state railways. The first order will comprise 129 locomotives, 930 passenger coaches and 4,000 other cars. The Minister of Commerce also announces that he will submit a plan for the expenditure of about 400,000,000 crowns on the railways.

CANAL.—Argentina.—Plans and estimates for the construction of a canal between Buenos Ayres and La Plata have been received by the Minister of Public Works. The estimated cost of the work is $26,471,000 gold. The cost of maintenance is estimated at $1,688,260 gold a year, and the revenue at $1,800,000, so that there would be a probable balance of $11,740. The Minister is of the opinion that the work should be given to a foreign firm or company, as the revenue of the country is not sufficient to enable the work to be done out of revenue.

GUNS, RAILWAY.—Servia.—A gold loan of $18,500,000 has been voted by the Servian Government. Out of this amount, $6,813,000 is to be expended on rolling stock, and the construction during the next three years of the following lines on the 0.76m.-gage (a) Paratchine-Tajechar-Negotinez; (b) Zabrege-Laikovatz-Vallevo; (c) Paratchine-Stalatch-Kroukievatz-Krallevo-Tchatchak-Pogegaougitze; (d) Araudielovatz-Laikovatz; (e) Kragoujevatz-Kralievo; (f) Belgrade-Obrenovatz. Also $8,954,000, to be applied to the purchase of big guns and other war material.

GAS LIGHTING, WATER-WORKS AND ELECTRIC TRAMWAY.—Portugal.—The Municipality of Coimbra has been granted authority to contract a loan of 100,000 milreis (about $108,000), to be allocated as follows: 54,000 milreis for buying out the "Companhia Conimbricense de Illuminacao a Gaz"; 16,000 milreis on improving the existing plant for the manufacture and distribution of gas; 30,000 milreis on the construction of a reservoir at Santo Antonio dos Olivaes, and the purchase of plant for supplying water. The municipality is also empowered to import, free of duty, such materials for the construction of electric tramways in Coimbra and its suburbs as cannot be produced in Portugal.

RAILWAYS.—Denmark.—Plans for railway extension has been prepared in the Danish Public Works Department, by which provision is made for the construction of six new state and 30 private lines, and the acquisition by the government of two private lines. The cost of the scheme will, it is anticipated, amount to more than 34,000,000 kroner (about $9,112,000), apart from the cost of expropriation and the purchase of the two private lines. The construction of the new railways will be undertaken partly by the government and partly by private companies, in which the government is shareholder. Three hundred and thirty-four miles of state railway and 532 miles of private railways will be built. Calls for bids will be issued in due course.

ELECTRIC LIGHT PLANTS.—Norway.—B. M. Rasmusen, U. S. Consul at Stavanger, Norway, states that the City Council of Stavanger has appropriated 1,112,900 crowns ($298,123) for the construction of a municipal electric light plant at the Olteddo Falls, according to the plan prepared by the City Engr., and for the acquisition of necessary title and ground. The Council of Haugesund, Norway, has adopted similar resolutions, and now the city of Sandnaes is preparing to do likewise. "The amount that will thus be expended for electric plants in these three cities will exceed $500,000 within the next two years. American contractors and manufacturers of electrical supplies should take advantage of this information as soon as possible by communicating with 'Elektricitets Kommitteen, Formandskabet,' of the respective cities."

PUBLIC WORKS.—South Africa.—The "Consular and Trade Reports" of the Department of Commerce and Labor state that "several engineering orders in South Africa may be shortly expected on account of public works. Bloemfontein, for instance, has raised $900,000 to extend the town's electric lighting system, complete the water-works and sewerage scheme, etc. The Johannesburg municipality is advised by its Works Committee to call bids for about $50,000 worth of iron work for sewerage and drainage purposes. A Natal loan of $3,625,000 has been issued for public works, including railways and railway equipment, harbor works and telegraphs. The recently issued Cape loan for $4,971,500 is to be devoted to similar works—$950,000 for railways, $72,000 for harbors and $3,294,500 for local undertakings and other purposes. In Barberton there is talk of combining an electric lighting scheme for the town with an irrigation project now under way."

RAILWAY EXTENSION.—TELEGRAPH LINE.—Brazil.—The President of the Republic has signed a decree granting provisional approval to the schemes of the North Eastern of Brazil Railway for the extension of its railway, together with telegraphic communication, for 200 kilometres from Baharu to Cuyaba.

The President has also signed decrees opening a credit of $800,000 (about $249,500) for the construction of a telegraph line from Cuyaba to Santo Antonio; of $300,000 (about $97,000) for the construction of the railway from Cruz Alta to the mouth of the Ijuhy, and of $900,000 (about $194,000) for the widening of the gage of the Central Railway to Sao Paulo.

The Ministry of Industry, Ways of Communication and Public Works has been authorized to expend 40,000 milreis (about $12,900) on the completion of surveys for a railway between S. Luis and Caxias; 600,000 milreis (about $194,700) on the extension of the main line of the Central Railway of Brazil.

READERS' WANTS

If you are in the market for material, equipment or supplies, and fail to find it in our advertising pages, send us full particulars, and we will gladly put you in touch with the right parties.

Also ask for our BUYERS' GUIDE

LIME BURNING KILNS.—Jacksonville, Fla.—We are advised by C. E. H. Sadler, Jacksonville, Fla., that he wishes to learn of firms dealing in lime burning kilns.

GASOLINE TRACTION ENGINE.—Highland Falls, N. Y.—William Brown, Highland Falls, N. Y., writes that he desires information relative to gasoline traction engines.

STREET SIGN LETTERS.—Holyoke, Mass.—O. C. Ferry, Asst. Clerk Board Public Works, Holyoke, Mass., desires to communicate with manufacturers of letters to be used in connection with street signs.

LOCOMOTIVE.—Hebron, N. D.—The Hebron Fire & Pressed Brick Co., Hebron, N. D., writes us that it is in the market for a 36-in. gage locomotive for brickyard use, weight about nine tons and hauling capacity about 50 tons over 3% grade.

ELEVATING AND CONVEYING MACHINERY.—Bermuda Hundred, Va.—Jas. S. Hall, Pres. Presque Isle Gravel Corporation, Bermuda Hundred, Va., writes us that he desires to be placed in communication with manufacturers of elevating and conveying machinery in connection with crushed stone and gravel operations.

INTERLOCKING STEEL SHEET PILING.—Meerut, India.—W. Atteursen, Sup. Engr. I Circe, Irrigation Works, U. P. Meerut, India, advises us that he would like to hear from firms manufacturing interlocking steel sheet piling who would forward to him details of shapes, sizes and weights, and prices, if possible, f. o. b. Bombay.

CIVIL SERVICE EXAMINATIONS.

STATISTICIAN.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on May 22 to secure eligibles from which to make certification to fill a vacancy in the position of Statistical Assistant with special knowledge of the statistics of production of fuels, in the Geological Survey, at $1,200 a year, and vacancies as they may occur in that Survey requiring similar qualifications. Applicants must indicate in their applications that they have had experience in the collection of statistics of production of fuels. Age limit, 20 years or over on the date of the examination. Application form 1312.

ELECTRICIAN.—New Rochelle, N. Y.—On May 29 the U. S. Civil Service Commission will hold an examination to secure eligibles from which to make certification to fill a vacancy in the position of Electrician, at $1,000 a year, in the Quartermaster's Department at Large, Fort Slocum, N. Y., and vacancies as they may occur in any branch of the service requiring similar qualifications. The duties of the specific position to be filled require thorough knowledge of and experience in house wiring, installation of electric fixtures, and construction of pole lines; ability to read and test watt meters and to care for and make slight repairs to transformers and arc lamps. Age limit 20 years or over. Application form 1052.

ASSISTANT ENGINEER (DESIGNER).—New York, N. Y.—An examination will be held by the Municipal Civil Service Commission, 299 Broadway, on June 4, for the position of Assistant Engineer (Designer). Candidates must have had at least five years' experience, part of which should have been in water-works designing and construction. Graduation from a technical school of recognized standing will be accepted as the equivalent of two years' experience. The examination is open to all citizens of the United States, and the rule requiring that two of the vouchers for candidates residing outside of the City of New York must be residents of the City of New York is waived for this examination. The salary is $2,100 a year and up. Age limit, 25 years. (This is a corrected advertisement; see issue of April 4.) Application forms will be received until 4 p. m., May 16. Frank A. Spencer is Secy. (Advertised, Engineering News.)

DRAFTSMEN, ENGINEERING EXAMINER, INSPECTOR, ETC.—Albany, N. Y.—The State Civil Service Commission will hold examinations May 25 for the following positions: *Architectural Draftsman, State Architect's Office, $15 to $25 a week; *Bridge Draftsmen, State Engineer's Office, $1,200 to $1,500; †Chainman, State Engineer's Dept., $2.50 to $3.00 a day; Clerk and Junior Clerk, Monroe County Service; *Engineering Examiner, State Civil Service Commission, $1,500; Examiner, Dept. of Education, $720 to $900; †Highway Inspector, State Engineer's Dept., $3,50 to $4.50 a day; Library Assistant, State Library, $600. The last day for filing applications for these positions is May 18th. Full information and application forms may be obtained by addressing Charles S. Fowler, Ch. Examiner. [*Open to residents and non-residents; †open to residents of New York State.] (Advertised, Engineering News.)

ENGINEER AND SAWYER.—Fort Defiance, Ariz.—The U. S. Civil Service Commission announces an examination on May 29, to secure eligibles from which to make certification to fill a vacancy in the position of Engineer and Sawyer, $800 a year, Navajo Indian Agency, N. Mex., and vacancies as they may occur in any branch of the service requiring similar qualifications. The mill plant at the Navajo Agency consists of a 30-HP. boiler, a 25-HP. engine, sawmill, planer, and shingle mill. The cutting capacity of the mill is 5,000 ft. a day. The engineer and sawyer has general supervision of the whole plant, the logging, two teams, and the cutting and preparing of the lumber. The person to be appointed to the specific position mentioned above should be especially well acquainted with sawing, should be a fairly good machinist, and able to manage the logging and sawing, and applicants having such qualifications should so indicate in their applications. He will have from four to eight Indian employees. Age limit, 20 years or over. Application form 1093.

SCIENTIFIC ASSISTANT.—Washington, D. C.—An examination will be held on May 22-23 by the U. S. Civil Service Commission to secure eligibles from which to make certification to fill a vacancy in the position of Scientific Assistant in Veterinary Zoology, Bureau of Animal Industry, Dept. of Agriculture, at $1,000 a year, and similar vacancies as they may occur in that Department. The initial salary is fixed at $1,000 a year, subject to increase later in proportion to the increase in efficiency of the employee as he gains experience and becomes more capable in fulfilling the duties of his position. The scientific assistants in veterinary zoology now employed in the Department of Agriculture receive from $1,000 to $1,800 a year. Applicants must indicate in their applications that they have a knowledge of general zoology, and in addition a special knowledge is required of the subject of animal parasites, particularly the parasites of men and the domesticated animals. The thesis required may be in handwriting or in typewriting, or published articles written by the applicant may be submitted as a thesis. Men only will be admitted to this examination. As No eligibles resulted from the examination held for this position March 20-21, 1907, qualified persons are urged to apply. Age limit, 20 to 40 years on the date of the examination. Application form 1312.

AIDS.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on May 15-16 to secure eligibles from which to make certification to fill at least 13 vacancies in the position of Aid in the Coast and Goedetic Survey, at salaries of $720 and $900 a year, which will occur on or before July 1, 1907, and similar vacancies as they may occur. As the commission has experienced considerable difficulty in securing a sufficient number of eligibles for this position to meet the needs of the service, qualified persons are urged to enter this examination. Vacancies in the position of Deck Officer as they may occur will also be filled as the result of this examination. Age limit, 18 to 25 years on the date of the examination. The rank of Aid is the lowest or entering rank leading to the position of assistant to the superintendent. In general, the exigencies of the service place the Aids so promptly in responsible positions that there is an abundant opportunity for a man of exceptional ability to become known. Aids are appointed at a salary of $720 a year. The next steps in the line of promotion are to the salaries of $900 and $1,100 as Aid, and thence to Assistant at $1,200, and then upwards by steps of $200 each. The law now provides for ten Aids at $720 a year, 13 Aids at $900, six Aids at $1,100, 34 Assistants at $1,200 to $1,800, and 30 Assistants at $2,000 to $4,000. These statements of salary are misleading unless taken in connection with the fact that the necessary traveling expenses incurred in the line of duty are paid by the Government, and that in addition to his salary an Aid or Assistant is paid an allowance for subsistence to cover the ordinary living expenses while on field duty. During this period the allowance for subsistence is from $1 a day for an officer living on shipboard or in camp in quarters furnished by the Government, to $2.50 a day for a chief of party living at a hotel or other quarters not furnished by the Government. On service in the Philippines the allowance for subsistence is $2.50 a day under all conditions, even at Manila. Application Form 1312.

STRUCTURAL STEEL DRAFTSMAN.—New York.—Following is the eligible list for the position of Structural Steel Draftsman, examination for which was held by the Municipal Civil Service Commission, New York, on April 26:

Forsberg, Carl T., 200 Wadsworth Ave..87.20
Seebach, George J., 843 East 170th St..86.30
Maloney, Daniel J., 1035 Lorimer St., Brooklyn. ..85.00
Codet, Alex. C., Jr., 250 Cumberland St., Brooklyn ..84.90
Klee, Frederick L., 853 Halsey St., Brooklyn. ..84.70
Barber, James F., Jr., 310 West 112th St. ..82.70
Golding, Thomas W., 8854 19th Ave., Brooklyn. ..82.60
McGronan, Charles J., 808 East 163d St. ..81.90
Brown, Irving J., 29 Harrison Ave., Port Richmond, Staten Island. ..81.90
Laznisk, Abraham, 232 West 136th St..81.70
Collins, Raymond R., 226a Willoughby Ave., Brooklyn. ..81.70
Stull, Joseph S., Jr., 2369 Morris Ave..81.60
Adams, Daniel F., 122 South Eighth Ave., Mount Vernon, N. Y. ..81.00
Bartholomew, John, 63 West Twelfth St. ..80.80
Scheiman, Berthold, 332 East 15th St..80.60
Loewenherz, Herman, 1376 Lexington Ave. ..80.00
Wilkins, Robert M., 33 West 124th St..79.90
Bartlett, John E., 319 Carlton Ave., Brooklyn. ..79.80
Haymaker, Everett G., 443 East Ninth St., Brooklyn ..78.30
Taylor, Louis, 1368 55th St., Brooklyn..78.10
Solow, Alex S., 1110 Jackson Ave. ..78.00
Landsman, Sigmund, 445 West 40th St..77.80
Geiger, Albert F., 503 West 146th St...77.60
Robinson, Oliver D., 1478 Bedford Ave., Brooklyn. ..77.60
Gulick, Raymond W., 44 Fort Greene Pl., Brooklyn ..77.10
Schon, Eugene, 230 President St., Brooklyn. ..76.80
Hyman, Henry, 141 and 143 Attorney St..76.80
Slade, Samuel, 416 Grand St. ..76.60
Strickler, Charles, 115 Cannon St. ..76.50
Hughes, Grover, 339 East 18th St. ..76.30
Hardecker, Frank J., 1066 Forest Ave..76.10
Gilbert, William A., 365 West 117th St..75.40
Barshell, Frederick B., 22 West 114th St. ..75.10
Dougherty, James E., Jr., 1131 Crotona Park North ..74.60
Crysler, Arthur G., 126 Shannard St., Syracuse, N. Y. ..74.40
Isaac, Mark, 1650 Park Ave. ..74.20
Baumgarten, Charles, 318 East 69th St..73.80
Gill, Stephen J. P., 550 Leonard St., Brooklyn. ..73.30
Koch, Andrew L., 164 Covert St., Brooklyn. ..72.80
Peyser, Irving M., 705 East 141st St...72.30
Weisman, Samuel G., 784 East 173d St., care of Weiss. ..70.00

INDUSTRIAL NOTES.

THE ACME ROAD MACHINERY CO., Frankfort, N. Y., reports that its plant was entirely destroyed by fire on April 26.

THE CARSON TRENCH MACHINE CO., Boston, Mass., has removed its New York office from 10 Barclay St. to 101 Warren St.

THE WISCONSIN BRIDGE & IRON CO., Milwaukee, Wis., announces its removal from 706 Pabst Bldg. to 605 Colby-Abbot Bldg., Milwaukee.

THE PARKER BOILER CO., Philadelphia, Pa., advises us that its New York office has been removed to 90 West St., West St. Bldg., and not 20 West St., as previously noted in this column.

THE UNIVERSAL PORTLAND CEMENT CO. announce the removal of the general offices to the Commercial National Bank Building, Chicago, and also the establishment of a branch office in the Frick Building, Pittsburg.

THE CONTINENTAL SIGNAL CO., 46 Van Buren St., Chicago, is a new firm organized for the manufacture of block and interlocking signals. President, George H. Paine; Engineer, W. A. D. Short; Secretary, Gaylord Thomas.

THE WHITING FOUNDRY EQUIPMENT CO., Harvey, Ill. (Chicago suburb), manufacturer of cranes and foundry equipment, announces the appointment of a new Southern representative, H. W. Canning, with headquarters in the Brown-Marx Building, Birmingham, Ala.

THE INDIANAPOLIS SWITCH & FROG CO., Springfield, O., state that, as a result of fire at its works on April 23d, the main building of the machine shop was entirely destroyed, excepting the walls. This building was 400 × 225 ft., and will be rebuilt at once as a fireproof structure. There was practically no loss of material or work in course of erection, and temporary arrangements are being made to complete, as far as possible, unfinished orders. The company will, at the earliest possible date, resume operations on a larger scale than before, restoring such equipment as was not seriously damaged, and replacing and adding such new machinery and facilities that will be necessary for the equipment of a modern, up-to-date plant.

THE B. F. STURTEVANT CO., of Boston, Mass., reports sales of electric propeller fans as follows: The Jeffrey Mfg. Co., Columbus, O.; Victor Talking Machine Co., Camden, N. J.; Samuel Jackson Co., Pawtucket, R. I.; Heyl & Patterson, Pittsburg, Pa.; E. Greenfield's Son & Co., Brooklyn, N. Y.; Ingersoll-Rand Co., Phillipsburg, N. J.; Westerburg & Williams, New York City; Goodman Mfg. Co., Chicago, Ill.; Wheeler-Green Electric Co., Rochester, N. Y.; Corbin Motor Vehicle Corp., New Britain, Conn.; Thos. G. Plant Co., Jamaica Plain, Mass.; Ideal Lunch, Boston, Mass.; Jackson & Co., Boston, Mass.; Harris-Emery Co., Des Moines, Iowa; and Fred. Odenbach & Son, Rochester, N. Y.

THE GEORGIA RAILWAY & ELECTRIC CO., of Atlanta, Ga., has had in operation for the past three months a model crushing plant for the production of crushed stone ballasting material for use on its right of way. The machinery installed in this plant comprises a No. 5 style "K" Gates breaker, with back gear driving connection; a No. 5 Gates elevator; a 32 in. × 14 ft. Gates iron frame revolving screen, and four 12 × 18-in. bin gates, with shafting, pulleys, and belting complete, all built and furnished by the Allis-Chalmers Company, of Milwaukee. The plant, which is located on the electric car line about four miles from the city of Atlanta, is driven by a 60-HP. direct current electric motor, operated by energy taken from the trolley.

HEENAN & FROUDE, LIMITED, of Manchester, Eng., report that they recently received two orders for their patent back feed refuse destructor for Canada, one for the city of Vancouver, and one for the city of Victoria, B. C. These two plants are similar in every respect, and each consists of cells, combustion chamber, water-tube boiler, regenerator, and fan and engine for forced draft. In the case of Vancouver the steam generated will be utilized for operating clinker utilization machinery, and the authorities of Victoria are considering the putting down of an electric light plant in connection with theirs. Both these orders were placed after the strictest investigation by the City Engineers, and under the keenest competition from both American and British firms. These two destructors, together with that for the Borough of Richmond, City of New York, make three contracts placed with the above firm this year for the continent of America.

THE GENERAL FIREPROOFING CO. has about completed additions to the plant at Youngstown, Ohio, which will double the capacity of the Allsteel Furniture factory, and provide for the lug, bar and girder frame departments as complete an equipment as has been possessed for some years past by the herringbone expanded steel lath and expanded metal shops. For the manufacture of pin-connected girder frames a shop 85x200 ft. has been erected, with a railroad spur running through the entire length of the building. Adjoining the girder frame shop is the steel yard, with stock lengths of cold twisted lug bars and the square bars used in fabricating the girder frames. This bar yard is covered by an electric crane having 100-ft. span and 320 ft. long, which has just been erected. To accommodate the steady growth of the Allsteel Furniture department, a reinforced concrete building 60 × 180 ft., with two stories, has been erected adjoining the old factory. By use of pin-connected girder frames, beams and girders of the same depth are provided, which greatly facilitates hanging shafting. The office building has been enlarged to accommodate the reinforced concrete department, by the erection of a two-story and basement addition, 36 × 73 ft., connected with the former office by a wing 36 × 36 ft. Cement plaster applied over herringbone expanded steel lath is used for the exterior finish, and instead of wood work on the addition Allsteel baseboards, mouldings, window and door casings and doors, finished like mahogany, have been used.

FRANK B. GILBRETH, 34 West 26th St., New York, advises us that one of the most distinctive of the numerous fireproof structures now in process of erection in San Francisco is the power station now being built by this organization for the City Electric Co., a corporation formed by local men. The building will be along lines very similar to that recently completed by the same contractor for the Seattle Electric Company at Georgetown, Wash., the relation of the engine and boiler room being exactly the same. The structure will be of reinforced concrete, and is planned to furnish space for two Parsons steam turbines, 2,000 kilowatts capacity, with four batteries of water-tube boilers, which will furnish light, heat and power for various commercial purposes. The engine room will be 45 ft. × 70 ft., and the boiler room adjoining 84 ft. × 70 ft., with a height of 35 ft. In the engine room will be a traveling crane of 40 tons capacity.

The design of the building will be such as to make possible its enlargement from time to time, the initial structure being erected with a view to its ultimate duplication. The foundation is placed on piles driven to hard pan 50 ft. below the street level. Requirements for the structure are that it shall be thoroughly fireproof, and, in so far as is practicable, earthquake-proof. With this in view the structure is being designed along most conservative lines, the unit stresses both in concrete and in steel being well within the requirements of the San Francisco building laws. Work on the foundations is now well under way. At an estimated cost of $105,000, the building has been planned by, and is being erected under the supervision of S. L. Napthaly, engineer for the company.

For other Proposal Advertisements see pages 55, 56, 57, 58, of Advertisements and Construction News page 176.

SEWERS.

Dowagiac, Mich.

Sealed proposals will be received at the office of City Clerk until 5 o'clock p. m., May 31, 1907, for furnishing all materials and constructing complete about 2 miles of 48, 42 and 40-inch sewers, with manholes, flush-tanks, etc.

For information and specifications address City Engineer.

Plans and profiles may be seen in office of City Clerk, Dowagiac, Mich.

Certified check for 5% of bid required.

H. L. RUTTER,
City Clerk.

19-2t

RESERVOIR AND WATER PIPE.

Sealed proposals will be r... wanton, Vt. ...ed by C. R. Allen, Pres. of the Village ... wanton, Vt., until 1.00 P. M., Wednesday ... 22d, 1907, for furnishing 51,500 ft. ... ooden stave water pipe of 10" and 12" ... ter, and all grates, valves, etc. Propos... will also be received at the same date for ...ling, trenching and laying 51,500 ft. of ... and the construction of a 1,000,000-gallo... sonry reservoir.

The right is reserved to re... any and all bids.

Plans may be seen at the of... the Board and forms of proposals, con... and specifications may be had by addr... the Press of the Board or the Engineer.

DR. C. E. ALLI...
Pres. Board ...rustees,
...wanton, Vt.

JOHN L. COLLINS, Engr.,
19-2t 444 Broadway, Al... Y.

CONCRETE ARCH.

Canand...gua, N. Y.

Sealed bids for the construction of a concrete arch, 120 feet long with a 20-foot span, filling over same, and removing old bridge, will be received at the office of the Town Clerk of Canandaigua, N. Y., up to 9 o'clock A. M., Monday, May 27, 1907, at which time the bids will be opened.

Plans and specifications may be seen on application at said Town Clerk's office.

A certified check in the sum of $100.00, made payable to the Supervisor of said Town, must accompany each bid.

The Town Board of said Town reserves the right to reject any and all bids.

PHILIP J. O'KEEFE,
19-1t Town Clerk.

U. S. ENGINEER OFFICE, New London, Conn., May 7, 1907.—Sealed proposals for delivering riprap stone in breakwaters at Bridgeport, Conn., will be received here until 12 o'clock, noon, June 7, 1907, and then publicly opened. Information furnished on application. HARRY TAYLOR, Maj., Engrs. 19-4t

Situations Wanted

EXPERIENCED Contractor's Superintendent and Engineer desires position of large capacity. University education. Ten years' experience; good organizer; fast worker. Authority on tunnels, caissons, heavy masonry, reinforced concrete, railroad work and building construction. Only work of responsibility desired. Highest references. Address "M. B. 19," Engineering News, New York. 19-1t

SITUATIONS OPEN

WANTED—At once, two transitmen on railroad maintenance work, vicinity of New York; $65 per month. Give age and experience. Address "R. B. 19," Engineering News, New York. 19-1t

WANTED—An experienced structural draftsman and estimator in railroad structural department. Must be graduate engineer and good draftsman. Salary $135 per month. In applying give full account of education and experience, send samples of drafting and lettering and furnish references. Only first-class men need apply. Address "H. B. 19," Engineering News, New York. 19-1t

WANTED—A good rock foreman on railroad double-tracking; answer, giving references. Address "O. C. 19," Engineering News, New York. 19-1t

WANTED—By an engineering firm in the Central West, an office engineer, experienced in municipal and railway work. Must be good draftsman and have executive ability. Will have charge of drafting room. Address in long hand, giving record, references and experience. "H. 17," Engineering News, New York. 19-2t

WANTED—Several structural detailers and checkers. HINKLE IRON CO., 534 West 56th St., New York City. 19-1t

WANTED—Draftsmen on all around railroad work; civil engineers and steam shovel foremen. Must be experienced and of good habits. State salary. Drinking men need not answer. BLAKE A. MAPLEDORAM, Chief Engr., Co-Operative Construction Co., Laporte, Ind. 19-2t

WANTED—First class draftsman. Railroad maintenance of way office, New Jersey. Submit sample of work; state experience and salary expected. Address "L. 18," Engineering News, New York. 19-tf

EXPERIENCED STRUCTURAL DRAFTSMEN wanted. Preferably college graduates. Good opportunity for capable men to work into estimating, designing and contracting. State fully age, experience and salary. SYRACUSE BRIDGE COMPANY, 226 Bastable Block, Syracuse, N. Y. 19-1t